

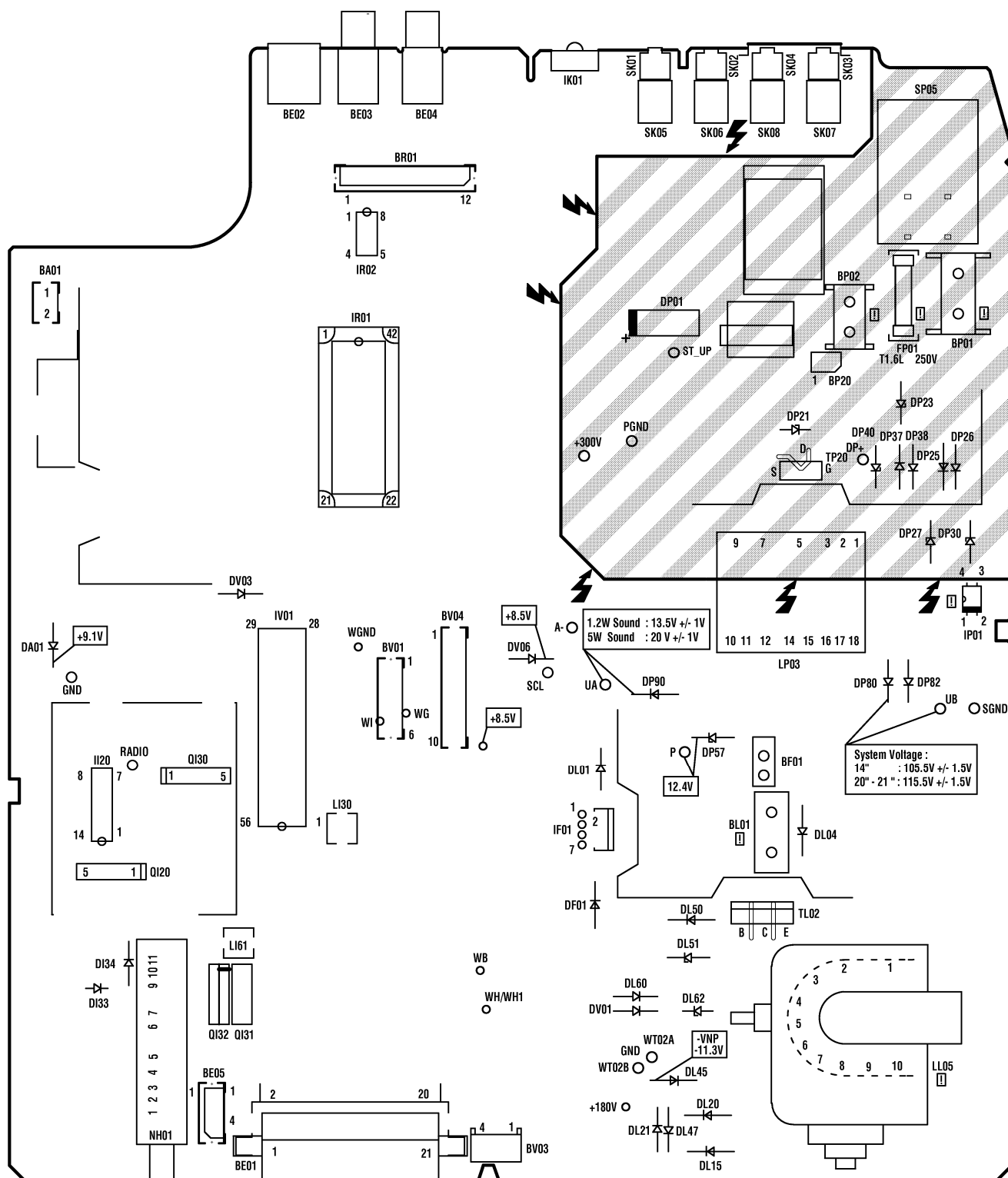
THOMSON

20MG110

MODEL

SERVICE MANUAL

LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - SERVICE LAGEPLAN POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES

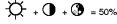



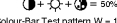





Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chasis conectada a la red.



Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U G2 / cutoff	SCREEN	Peak white pattern.  = 50%	 highest output CRT V Collector TTS2,TT62,TT72	Adjust Screen voltage VG2 120V +/- 5V: 14" 145V +/- 5V: 20" & 21"  B G RED Cutoff level GND
FOCUS	LL05	Contrast = 100% Brightness = 0% Test pattern (standard values) 		Sharp picture
(MAIN) SYSTEM VOLTAGE +UB	.	 = 50% Colour-Bar Test pattern W = 100% Mire de barres couleur blanc = 100% Farbballen W = 100% Monoscopio delle barre colorate bianco = 100% Mira en color blanco = 100% AV1 	 YP07 DP 80 tUB CP88	14" : 105 V +/- 1.5V 20" - 21" : 115.5 V +/- 1.5V

SERVICE-MODE



MODE SERVICE



It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Focus and Screen voltages.

1. Service Mode Access





- 1.1 With the RCU, switch the TV set into the "Standby" mode.
- 1.2 Switch "Off" the TV set by mains supply switch (wait until LED is dark).
- 1.3 Whilst pressing the "Magenta" (text) button on the RCU switch "On" the TV set using the mains switch.
Continue to press the "Magenta" (text) button until the Service-setup Sub-menu appears.

VT01	1BIL	2BD	3B	4I	5DI	>1
FFI						OFF

Important : The Service Mode cannot be entered if any equipment is connected to the Scart socket, i.e. pin 8 switching voltage present.

2. Service Menu

2.1 Navigation

- Press the   buttons to select the menu line.
- Press the   buttons to make adjustments or selection of a menu item.



2.2 Service Sub-Menus

- Service Set-up Sub-menu - IF Sub-menu - Video Sub-menu
Geometry Sub-menu - Hotel Menu

2.3 Activation of Service Sub-Menu

To navigate around the Service sub-menu, press the "Magenta" button on the RCU, to step through the sub-menus in the following order:
... No Menu > Service Setup Sub-Menu > Service IF Sub-Menu > Service Geometry Sub-Menu > Service Video Sub-Menu > Hotel Menu > No Menu > Service Set-up Sub-Menu ... etc.

3. Alignment and storing new function value

- 3.1 The current value of the selected function is displayed in a hexadecimal form to the right of the function name. This value is adjusted by means of the RCU   buttons.
- 3.2 To "STORE" the functions new value whilst in any of the Service Sub-menus, press the "OK" button on the RCU.
- 3.3 To leave the Service Sub-menu press the "Exit" button on the RCU.

4. Temporary exit from Service Mode

- 4.1 To temporarily leave the Service Mode, press the "Exit" button on the RCU. To access the everyday menus, press the "Menu" button on the RCU.
- 4.2 To return to the Service Mode, press the "Magenta" button on the RCU.

5. Leaving the Service Mode

- 5.1 To leave the Service mode either, switch the TV set into "Standby" or switch "Off" the mains supply.

Le mode service sert au réglage de l'appareil. Toutes les opérations de réglage s'effectuent à l'aide de la télécommande (sauf les réglages de Focus et de tension de grille-écran).

1. Accès au mode service





- 1.1 Commuter le téléviseur en position de veille avec la télécommande.
- 1.2 Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- 1.3 Maintenir la touche "Magenta" (text) enfoncée et mettre simultanément le téléviseur en marche avec l'interrupteur secteur.
Ne pas relâcher la touche "Magenta" (text) jusqu'à apparition du sous-menu de Service Setup.

VT01	1BIL	2BD	3B	4I	5DI	>1
FFI						OFF

Attention : Le mode service n'est pas accessible si un appareil est connecté à la prise péritelvision.

2. Menu Service

2.1 Déplacement

- Appuyer sur la touche   pour sélectionner une ligne de menu.
- Appuyer sur la touche   pour un réglage ou une sélection d'une option.

2.2 Sous-Menus du mode service

- Sous- Menu Setup - Sous- Menu FI - Sous- Menu Video -
Sous- Menu Geometrie - Menu Hotel

2.3 Sélection d'un Sous-Menu

En mode service des courtes pressions sur la touche "Magenta" permet la sélection d'un sous- menu dans l'ordre suivant :
... Pas de Menu > Sous-menu Setup > Sous-menu FI > Sous-menu Geometrie > Sous-menu Video > Hotel Menu > Pas de Menu > Sous-menu Setup ...

3. Réglage des fonctions sélectionnées; mémorisation

- 3.1 La valeur momentanée de la fonction sélectionnée est indiquée sous forme hexadécimale à droite, à côté de la position à régler et peut être modifiée avec la télécommande par la touche  .
- 3.2 Dans un sous-menu (Service Setup / FI / Geometrie / Video) appuyer sur la touche "OK" pour mémoriser la nouvelle valeur de réglage en NVN (EEPROM).
- 3.3 Appuyer sur la touche "Exit" pour sortir d'un sous-menu.

4. Sortie temporaire du mode service

- 4.1 Utiliser la touche "Exit" de la télécommande.
Le menu utilisateur peut-être accessible via la touche "Menu".
- 4.2 Pour entrer à nouveau dans le Menu Setup utiliser la touche magenta.

5. Sortie du mode service

- 5.1 Pour sortir du mode service, commuter le téléviseur en position de veille ou le mettre hors service par l'interrupteur secteur.

SERVICE-MODE



Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Fokuseinstellung und Schirmmitterspannung).

1.Service-Mode einschalten





- 1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
- 1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
- 1.3 Während Sie die magentafarbene Taste (text) auf der Fernbedienung gedrückt halten, schalten Sie das Gerät mit dem Netzschalter ein. Halten Sie die magentafarbene Taste solange gedrückt bis das Service Setup Sub-Menu erscheint.

VT01	1BIL	2BD	3B	4I	5DI	>1
FFI						OFF

Achtung : Der Service-Mode lässt sich nicht einschalten, wenn an einer Euro-AV-Buchse ein Gerät aktiviert ist, d.h. die Schaltspannung anliegt.

2. Service Menü

2.1 Navigation

- Drücken Sie die Tasten   zum Auswählen der Menüzeile.
- Drücken Sie die Tasten   zum Einstellen oder Auswählen in einer Menüzeile

2.2 Service Sub-Menü



- Service Setup Sub-Menü - ZF Sub-Menü - Video Sub-Menü,
Geometrie Sub-Menü - Hotel Menü

2.3 Service Sub-Menü aktivieren

Durch einen jeweils kurzen Druck auf die magentafarbene Taste wird das Service Menü in der folgenden Reihenfolge aktiviert.

... Kein Menü > Service Setup Sub-Menü > Service ZF Sub-Menü > Service Geometrie Sub-Menü > Service Video Sub-Menü > Hotel Menü > kein Menü > Service Setup Sub-Menü ...

3. Abgleich der gewählten Funktion und Speichern

- 3.1 Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugeichenden Position angegeben und kann mit der Taste   auf der Fernbedienung verändert werden.
- 3.2 In den Service Sub-Menüs drücken Sie OK um die neuen Funktionswerte im NVN (EEPROM) zu speichern.
- 3.3 Drücken Sie "Exit" zum Verlassen eines Service Sub-Menüs.

4. Vorübergehendes verlassen des Service-Mode

- 4.1 Auf der Fernbedienung Exit drücken.
Mit der Taste Menü gelangen Sie zum Menü Übersicht.
- 4.2 Durch Drücken der magentafarbenen Taste gelangen Sie in das Service Setup Sub-Menü.

5. Service-Mode verlassen

- 5.1 Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

MOD0 SERVICIO



Se necesita al MOD0 SERVICIO para ajustar el aparato. Todos los ajustes se hacen con el mando a distancia (a excepción de la tensión del sistema, los ajustes del foco y las tensiones de la rejilla de pantalla).





1. Ajustar el Modo Servicio

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- 1.3 Mientras mantiene pulsado el botón "Magenta (texto)" de la UCR, pulse el interruptor de paso de la corriente "On" para encender el televisor. Mantenga pulsado el botón "Magenta (texto)" hasta que aparezca el submenú de la configuración del servicio.

VT01	1BIL	2BD	3B	4I	5DI	>1
FFI						OFF

Atención : No se puede conectar el MOD0 SERVICIO cuando en Eurotoma- AV está activado un aparato, es decir, cuando existe tensión de conexión.

2. Menú Servicio.

- 2.1 Desplazamiento
- Pulse el botón   para seleccionar la línea del menú.
- Pulse el botón   para ajustar o seleccionar una opción del menú.

2.2 Submenú Servicio

> Service Setup Sub-menu - IF Sub-menu - Video Sub-menu
Geometry Sub-menu - Hotel Menu 2.3 Activación del submenú Servicio

SERVICE-MODE



Il Service-Mode è necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (a parte la regolazione del fuoco e le tensioni della griglia schermo).

1. Attivazione del Service-Mode





- 1.1 Commutare il televisore in stand-by con il telecomando.
- 1.2 Spegner l'apparecchio con l'interruttore di rete (attendere finché il LED è spento)
- 1.3 Mentre tenete premuto il pulsante "Magenta (testo)" dell' RCU, accendete il televisore utilizzando l'interruttore di rete. Continuate a premere il pulsante "Magenta (testo)" dell' RCU fino all'apparizione del Service Setup Sub Menu

VT01	1BIL	2BD	3B	4I	5DI	>1
FFI						OFF

Attenzione : Il Service-Mode non si può attivare se è attivato un apparecchio collegato alla presa di peritelvisione AV, cioè se è presente la tensione ausiliaria.

2. Service Menu

2.1 Navigazione

- Premere i tasti   per selezionare la linea del menu
- Premere i tasti   per la regolazione o la selezione di un elemento del menu

2.2 Services Sub-Menu



- Service Setup Sub-menu - IF Sub-menu - Video Sub-menu
Geometry Sub-menu - Hotel Menu

2.3 Attivazione del Service Sub-Menu

Nel Service Mode, una breve pressione sul tasto "Magenta" attiverà il Service Menu secondo questa sequenza:

... No Menu > Service Setup Sub-Menu > Service IF Sub-Menu > Service Geometry Sub-Menu > Service Video Sub-Menu > Hotel Menu > No Menu > Service Setup Sub-Menu ...

3. Taratura della funzione scelta e memorizzazione

- 3.1 Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alla posizione da allineare e può essere cambiato con il pulsante   del telecomando.
- 3.2 Nel Service Sub-Menu (cioè Service Setup / IF / Geometrie Video Sub Menu), premere "Ok" per MEMORIZZARE i nuovi valori delle funzioni in NVN (EEPROM).
- 3.3 Premere il tasto "Exit" per uscire da qualsiasi Service Sub-Menu.

4. Uscita temporanea dal Service Mode

- 4.1 Premere Exit sul telecomando.
Al menu di uso quotidiano si accede attraverso il pulsante Menu.
- 4.2 Il Service Setup Sub Menu è accessibile attraverso il tasto "Magenta".

5. Disattivazione del Service-Mode



- 5.1 Per disattivare il ServiceMode, commutare l'apparecchio in stand-by o spegnerlo con l'interruttore di rete.

2.3 Activación del submenú Servicio

Al pulsar brevemente el botón "Magenta" en el modo Servicio, activará el menú Servicio en la secuencia siguiente:

... No Menu > Service Setup Sub-Menu > Service IF Sub-Menu > Service Geometry Sub-Menu > Service Video Sub-Menu > Hotel Menu

3. Ajuste de la función elegida y almacenamiento

- 3.1 El valor momentáneo de la función elegida es indicado de modo hexadecimal a la derecha, al lado de la posición a ajustar, y puede cambiarse con la tecla   en el mando a distancia.
- 3.2 En el submenú Servicio, es decir, Configuración del servicio(IF/GeometriaSubmenu Video pulse "OK" para ALMACENAR el nuevo valor de las funciones en NVN (EEPROM).
- 3.3 Pulse el botón "Exit" para salir de cualquier submenú Servicio.

4. Salida temporal del Modo Servicio

- 4.1 Pulse Salir en el mando a distancia.
Con el botón Menu puede acceder aml menú de uso cotidiano.
- 4.2 Puede acceder al submenú de configuración del servicio mediante el botón "Magenta".

5. Salir del Modo Servicio

- 5.1 Conmute el aparato a STANDBY a fin de salir del MOD0 SERVICIO o desconectar con el interruptor de la red.

SET-UP SUB-MENU	IF SUB-MENU	GEOMETRY SUB-MENU	VIDEO SUB-MENU	HOTEL MENU
<p>1. SET-UP</p> <p>2. SET-UP</p> <p>3. SET-UP</p> <p>4. SET-UP</p> <p>5. SET-UP</p> <p>6. SET-UP</p> <p>7. SET-UP</p> <p>8. SET-UP</p> <p>9. SET-UP</p> <p>10. SET-UP</p> <p>11. SET-UP</p> <p>12. SET-UP</p> <p>13. SET-UP</p> <p>14. SET-UP</p> <p>15. SET-UP</p> <p>16. SET-UP</p> <p>17. SET-UP</p> <p>18. SET-UP</p> <p>19. SET-UP</p> <p>20. SET-UP</p> <p>21. SET-UP</p> <p>22. SET-UP</p> <p>23. SET-UP</p> <p>24. SET-UP</p> <p>25. SET-UP</p> <p>26. SET-UP</p> <p>27. SET-UP</p> <p>28. SET-UP</p> <p>29. SET-UP</p> <p>30. SET-UP</p> <p>31. SET-UP</p> <p>32. SET-UP</p> <p>33. SET-UP</p> <p>34. SET-UP</p> <p>35. SET-UP</p> <p>36. SET-UP</p> <p>37. SET-UP</p> <p>38. SET-UP</p> <p>39. SET-UP</p> <p>40. SET-UP</p> <p>41. SET-UP</p> <p>42. SET-UP</p> <p>43. SET-UP</p> <p>44. SET-UP</p> <p>45. SET-UP</p> <p>46. SET-UP</p> <p>47. SET-UP</p> <p>48. SET-UP</p> <p>49. SET-UP</p> <p>50. SET-UP</p> <p>51. SET-UP</p> <p>52. SET-UP</p> <p>53. SET-UP</p> <p>54. SET-UP</p> <p>55. SET-UP</p> <p>56. SET-UP</p> <p>57. SET-UP</p> <p>58. SET-UP</p> <p>59. SET-UP</p> <p>60. SET-UP</p> <p>61. SET-UP</p> <p>62. SET-UP</p> <p>63. SET-UP</p> <p>64. SET-UP</p> <p>65. SET-UP</p> <p>66. SET-UP</p> <p>67. SET-UP</p> <p>68. SET-UP</p> <p>69. SET-UP</p> <p>70. SET-UP</p> <p>71. SET-UP</p> <p>72. SET-UP</p> <p>73. SET-UP</p> <p>74. SET-UP</p> <p>75. SET-UP</p> <p>76. SET-UP</p> <p>77. SET-UP</p> <p>78. SET-UP</p> <p>79. SET-UP</p> <p>80. SET-UP</p> <p>81. SET-UP</p> <p>82. SET-UP</p> <p>83. SET-UP</p> <p>84. SET-UP</p> <p>85. SET-UP</p> <p>86. SET-UP</p> <p>87. SET-UP</p> <p>88. SET-UP</p> <p>89. SET-UP</p> <p>90. SET-UP</p> <p>91. SET-UP</p> <p>92. SET-UP</p> <p>93. SET-UP</p> <p>94. SET-UP</p> <p>95. SET-UP</p> <p>96. SET-UP</p> <p>97. SET-UP</p> <p>98. SET-UP</p> <p>99. SET-UP</p> <p>100. SET-UP</p>	<p>1. IF</p> <p>2. IF</p> <p>3. IF</p> <p>4. IF</p> <p>5. IF</p> <p>6. IF</p> <p>7. IF</p> <p>8. IF</p> <p>9. IF</p> <p>10. IF</p> <p>11. IF</p> <p>12. IF</p> <p>13. IF</p> <p>14. IF</p> <p>15. IF</p> <p>16. IF</p> <p>17. IF</p> <p>18. IF</p> <p>19. IF</p> <p>20. IF</p> <p>21. IF</p> <p>22. IF</p> <p>23. IF</p> <p>24. IF</p> <p>25. IF</p> <p>26. IF</p> <p>27. IF</p> <p>28. IF</p> <p>29. IF</p> <p>30. IF</p> <p>31. IF</p> <p>32. IF</p> <p>33. IF</p> <p>34. IF</p> <p>35. IF</p> <p>36. IF</p> <p>37. IF</p> <p>38. IF</p> <p>39. IF</p> <p>40. IF</p> <p>41. IF</p> <p>42. IF</p> <p>43. IF</p> <p>44. IF</p> <p>45. IF</p> <p>46. IF</p> <p>47. IF</p> <p>48. IF</p> <p>49. IF</p> <p>50. IF</p> <p>51. IF</p> <p>52. IF</p> <p>53. IF</p> <p>54. IF</p> <p>55. IF</p> <p>56. IF</p> <p>57. IF</p> <p>58. IF</p> <p>59. IF</p> <p>60. IF</p> <p>61. IF</p> <p>62. IF</p> <p>63. IF</p> <p>64. IF</p> <p>65. IF</p> <p>66. IF</p> <p>67. IF</p> <p>68. IF</p> <p>69. IF</p> <p>70. IF</p> <p>71. IF</p> <p>72. IF</p> <p>73. IF</p> <p>74. IF</p> <p>75. IF</p> <p>76. IF</p> <p>77. IF</p> <p>78. IF</p> <p>79. IF</p> <p>80. IF</p> <p>81. IF</p> <p>82. IF</p> <p>83. IF</p> <p>84. IF</p> <p>85. IF</p> <p>86. IF</p> <p>87. IF</p> <p>88. IF</p> <p>89. IF</p> <p>90. IF</p> <p>91. IF</p> <p>92. IF</p> <p>93. IF</p> <p>94. IF</p> <p>95. IF</p> <p>96. IF</p> <p>97. IF</p> <p>98. IF</p> <p>99. IF</p> <p>100. IF</p>	<p>1. GEOMETRY</p> <p>2. GEOMETRY</p> <p>3. GEOMETRY</p> <p>4. GEOMETRY</p> <p>5. GEOMETRY</p> <p>6. GEOMETRY</p> <p>7. GEOMETRY</p> <p>8. GEOMETRY</p> <p>9. GEOMETRY</p> <p>10. GEOMETRY</p> <p>11. GEOMETRY</p> <p>12. GEOMETRY</p> <p>13. GEOMETRY</p> <p>14. GEOMETRY</p> <p>15. GEOMETRY</p> <p>16. GEOMETRY</p> <p>17. GEOMETRY</p> <p>18. GEOMETRY</p> <p>19. GEOMETRY</p> <p>20. GEOMETRY</p> <p>21. GEOMETRY</p> <p>22. GEOMETRY</p> <p>23. GEOMETRY</p> <p>24. GEOMETRY</p> <p>25. GEOMETRY</p> <p>26. GEOMETRY</p> <p>27. GEOMETRY</p> <p>28. GEOMETRY</p> <p>29. GEOMETRY</p> <p>30. GEOMETRY</p> <p>31. GEOMETRY</p> <p>32. GEOMETRY</p> <p>33. GEOMETRY</p> <p>34. GEOMETRY</p> <p>35. GEOMETRY</p> <p>36. GEOMETRY</p> <p>37. GEOMETRY</p> <p>38. GEOMETRY</p> <p>39. GEOMETRY</p> <p>40. GEOMETRY</p> <p>41. GEOMETRY</p> <p>42. GEOMETRY</p> <p>43. GEOMETRY</p> <p>44. GEOMETRY</p> <p>45. GEOMETRY</p> <p>46. GEOMETRY</p> <p>47. GEOMETRY</p> <p>48. GEOMETRY</p> <p>49. GEOMETRY</p> <p>50. GEOMETRY</p> <p>51. GEOMETRY</p> <p>52. GEOMETRY</p>		

HOTEL MENU	
HOTEL	ON
MAX 1

Perform the G2 and the Focus settings beforehand.
Effectuez au préalable les réglages de G2 et de focus.
Stellen Sie zuvor G2 und "Focus" ein.
Effettuare le regolazioni G2 e del Fuoco innanzitutto.
Efectuar previamente los ajustes de G2 y Foco.

IF

AFC
AFC Status display - Visualise l'état de AFC
AFC Status display - Stato display AFC
Estado del CAF.

Display	AFC Status
< - < - >	Fosc. too low
< - >	
> - > - >	Fosc. too high
> - >	

IFPL **IF PLL adj.**
VCO - 38.9MHz

L'FA **IF PLL adjustment chassis (LL')**
VCO 38.9MHz

PAL: SECAM
 colour bar
 signal

chassix TX807

38.9 MHz / 33.9 MHz
15 mV

I - **IFPL**
 Signal: PAL or SECAM / 38.9MHz / 15mV
 -TV- Norm BG or L: Program Menu

◀ EURL FR UK ▶
 VIRO

EURO : norm BG
 FR : norm LL'

II - L'FA (For BGHLL' set)
 Signal: SECAM / 33.9 MHz / 15mV
 -TV- Norm L: Program Menu

- Adjust IFPL (or L'FA) until the indicator (x) is within the brackets < x > .

- Régler IFPL ou L'FA pour que le curseur (x) soit dans la fenêtre AFC < x > .

- IFPL (oder L'FA) einstellen wann der indikator (x) innerhalb der klammern ist < x > .

- Regolare IFPL (o L'FA) in modo che l'indicatore (x) rimanga all'interno delle parentesi < x > .

- Ajustar IFPL (o L'FA) hasta que el cursor (x) esté entre los símbolos < x > .

ROM Default Value : IFPL : 3F L'FA : 3F







AGC


Minimum noise- Minimum de bruit
 Geräuschminimum- Rumore mínimo
 Minimum ruido

303.25 MHz±88K
 303V

- Set AGC to 00
 - Adjust AGC for maximum gain of IF signal.

ROM Default Value : AGC : 1F

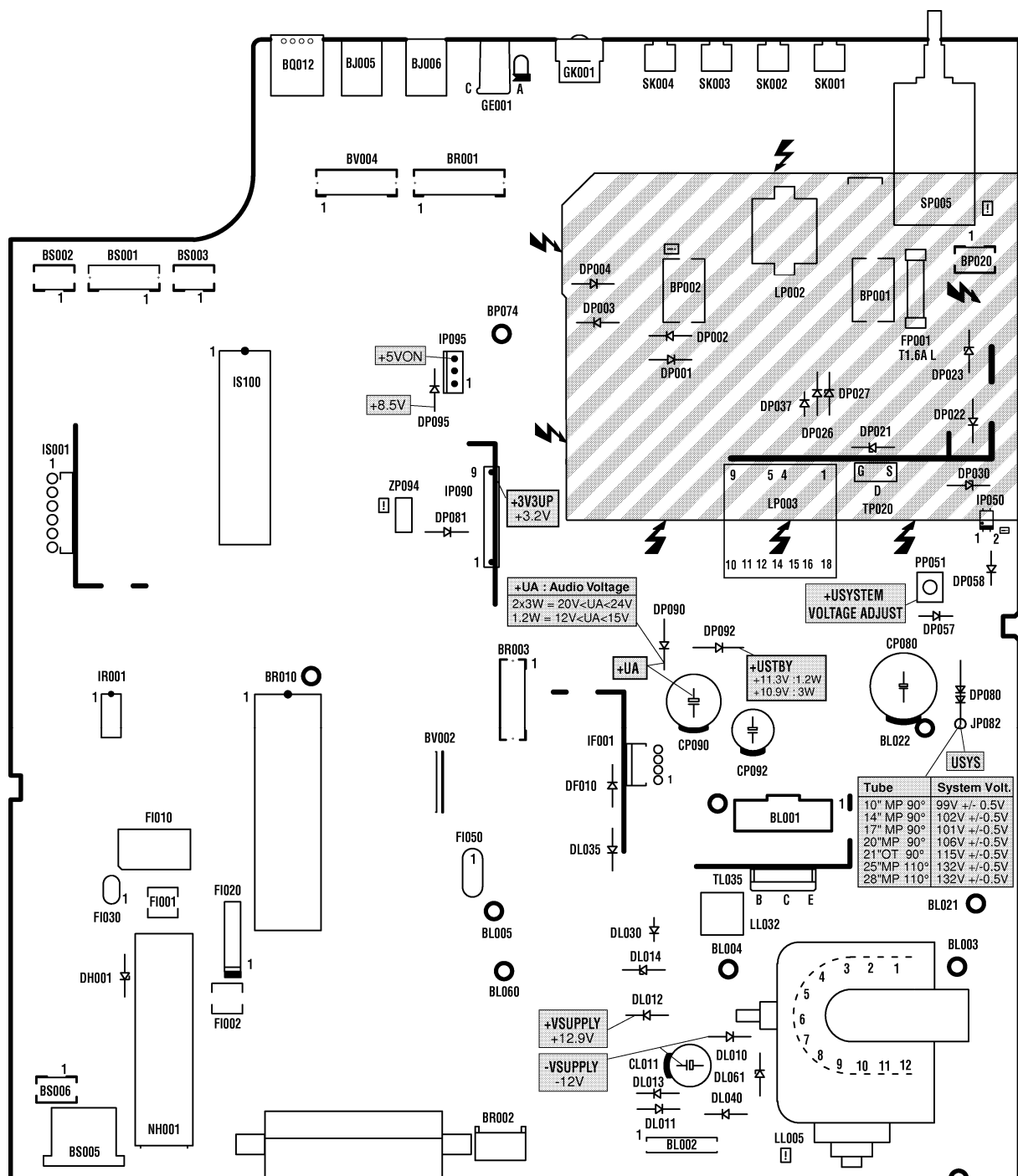
VIDEO														
RED*		 = 50% Grey scale test pattern white=100%												
GRN*		 weiß, white												
BLU*														
ROM Default Value : RED : 1F GRN : 1F BLU : 1F														
PEAK	 CRT Pin 6,8,11	PEAK WHITE ADJUSTMENT  = 50%  = 100%												
Oscillo. or colorimeter		<table border="1"> <thead> <tr> <th>Secs</th> <th>Nits</th> <th>Ynp</th> </tr> </thead> <tbody> <tr> <td>14"</td> <td>450</td> <td>70</td> </tr> <tr> <td>20"</td> <td>450</td> <td>-</td> </tr> <tr> <td>21"</td> <td>450</td> <td>-</td> </tr> </tbody> </table>	Secs	Nits	Ynp	14"	450	70	20"	450	-	21"	450	-
Secs	Nits	Ynp												
14"	450	70												
20"	450	-												
21"	450	-												



overscan V=100%

overscan V=107%

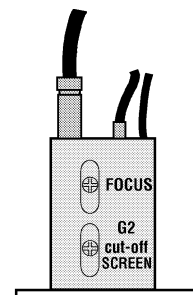
LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chasis conectada a la red.



Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarli dalla rete



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U G2 / CUTOFF

LL05

Peak white pattern

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

SET-UP LINES	
ID 00 07	
INIT	◀▶ 0-03
STANDARD	00 0-03
OSDCONTR	07 0-0F
FR	00

ID 00 07	Software code
INIT	Initialise TV set. Sets all Service Mode functions stored in the EEPROM to their default values. See below the default values table.
STANDARD	"INIT" copy all service parameters from the ROM to EEPROM. It will be necessary in this case to readjust most of the service mode functions.
OSDCONTR	"INIT" copie toutes les valeurs par défaut stockées en ROM vers l'EEPROM. Il peut être nécessaire dans ce cas de reprendre la plupart des réglages du mode service.
FR	"INIT" kopiert alle Service-Parameter aus dem ROM in das EEPROM. Es ist anschließend notwendig die meisten Service-Funktionen neu abzugleichen.
VA	"INIT" copia tutti i parametri di servizio dalla ROM alla EEPROM. Sarà necessario in seguito regolare alcune funzioni in Service Mode.
VSH	"INIT" copia todos los valores por defecto memorizados en la ROM hacia la EEPROM. Puede ser necesario en el caso de tener que reajustar la mayor parte de los ajustes en Modo Servicio.

STANDARD RF Norm Group Selection	
00	EU BG / LL
01	FR LL / BG
02	UK PAL I only
03	DK PPK' PAL SECAM

ROM Default Value :
TX 807 C / CS Europe : 00 EU

OSDCONTR	factory Setting
Full-page video text contrast	OSDCONTR = 03H

FR	Factory Setting: FR=00H Specific TX807C mono TDA9351N1.
00	FR is not available in progr. menus.
01	FR non disponible dans le menu de programmation
02	FR ist im Prog. Menü nicht verfügbar
03	FR non è disponibile nel menu prog.
04	FR : FR no está disponible en el menú programación

GEOMETRY LINES*	
HS	20 0-3F
VS	◀1A 0-3F▶
VA	20 0-3F
SC	10 0-3F
VSH	20 0-3F

HS		
VS		
VA		
SC		
VSH		

VA		
SC		
VSH		

VA		
SC		
VSH		

overscan :
V=107%
H=107%

VIDEO LINES	
CL	◀00 0-0F▶
BLORS*	08 0-0F
BLOGS*	08 0-0F
WPRS*	20 0-3F
WPGS*	20 0-3F
PWS*	20 20 20 0-3F
BKS*	ON OFF-ON
YD	08 0-0F

CL		Factory setting. Extension of the peak White range. Réglage usine. Extension des valeurs de réglages du Peak White. Factory Setting. Extension of the peak White range. Factory Setting. Extension of the peak White range. Ajuste de fábrica. Extensión del margen del Peak White.
Cathode Level		
Cutt-off **		= 50% Grey scale test pattern white = 100%
BLORS / BLORP		Black level offset Red SECAM/PAL
BLOGS / BLOGP		Black level offset Green SECAM/PAL
Drive**		
WPRS / WPRP		White point Red SECAM/PAL
WPGS / WPGP		White point Green SECAM/PAL
WPBS / WPBP		White point Blue SECAM/PAL
PWS / PWP**		Peak White SECAM/PAL
BKS		Black Stretch
YD		Luminance Delay

*Perform the G2 and the Focus settings beforehand.
Effectuez au préalable les réglages de G2 et de focus.
Stellen Sie zuvor G2 und "Focus" ein.
Efectuare le regolazioni G2 e del Foco innanzitutto.
Efectuar previamente los ajustes de G2 y Foco

** Adjust separate for PAL / SECAM
* S * : Video signal received is SECAM.
* P * : Video signal received is PAL.

IF LINES	
TOP	◀20 0-0F▶

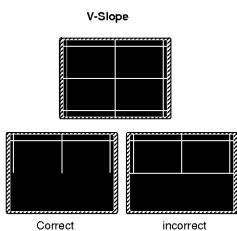
TOP		AGC - Take Over
AGC - Take Over		
ROM Default Value		AGC : 20

DEFAULT VALUES

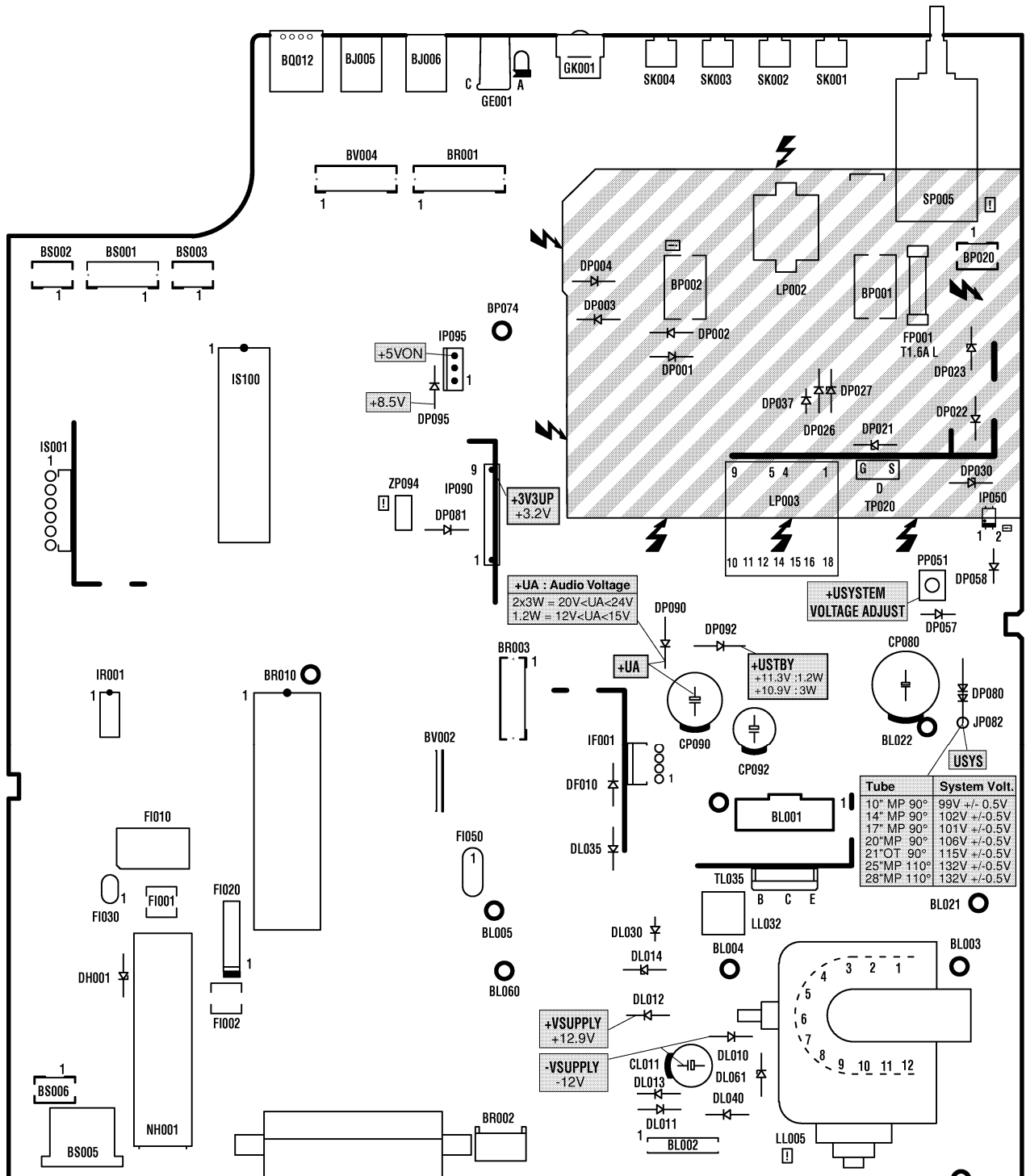
OSD	DESCRIPTION	DEFAULT VALUE (HEX)
ID	Software	
INIT	Initialise TV set	
STANDARD	RF Norm Group Selection	0 (EU)
OSDCONTR	OSD Contrast	03
FR	France	00
HS	Horizontal shift	20
VS	Vertical Slope	1A
VA	Vertical Amplitude	20
SC	S-Correction	10
VSH	Vertical shift	20
CL	Cathode Level	00
BLORS	Black level offset Red SECAM	8
BLORP	Black level offset Red PAL	8
BLOGS	Black level offset Green SECAM	8
BLOGP	Black level offset Green SECAM	8
WPRS	White point Red SECAM	20
WPRP	White point Red PAL	20
WPGS	White point Green SECAM	20
WPGP	White point Green PAL	20
WPBS	White point Blue SECAM	20
WPBP	White point Blue PAL	20
PWS	Peak White SECAM	20
PWP	Peak White PAL	20
BKS	Black Stretch	01
YD	Luminance Delay	08
TOP	AGC take-over	20
CD0	Colour Decoder 0	84
CD1	Colour Decoder 1	Mono : 80 Stereo: 00
SYN0	Synchronisation 0	30
SYN1	Synchronisation 1	1C
DEF	Deflection	00
V10	Vision IF 0	40
V11	Vision IF 1	00
SOUND	Sound	00
CONT0	Control 0	40
CONT1	Control 1	00
FEAT0	Features 0	00

VIDEO PROCESSOR LINES	
CD0	84 0-FF
CD1	◀30 0-FF▶
SYN0	30 0-FF
SYN1	08 0-FF
DEF	00 0-0F
V10	40 0-FF
V11	00 0-0F
SOUND	00 0-FF
CONT0	40 0-FF
CONT1	00 0-0F
FEAT0	00 0-01

CD0	Colour Decoder 0 = 84
CD1	Colour Decoder 1 mono sets: CD1 = 80H stereo sets: CD1 = 00H Factory setting.
SYN0	Synchronisation 0 = 30
SYN1	Synchronisation 1 = 1C Factory setting.
DEF	Deflection = 00 Factory setting.
V10	Vision IF 0 = 40
V11	Vision IF 1 = 00 Factory setting.
SOUND	Sound = 00 Factory setting.
CONT0	Control 0 = 40
CONT0	Control 1 = 00 Factory setting.
FEAT0	Features 0 = 00 Factory setting.



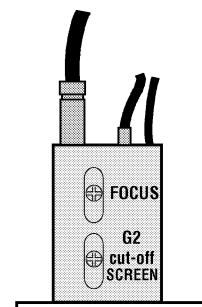
LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - LAGEPLAN EINSTELLER - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



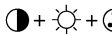
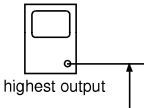
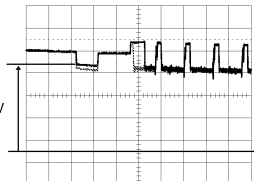


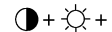

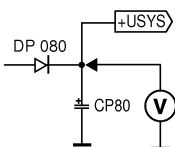
Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chasis conectada a la red



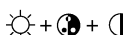









Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarvi dalla rete



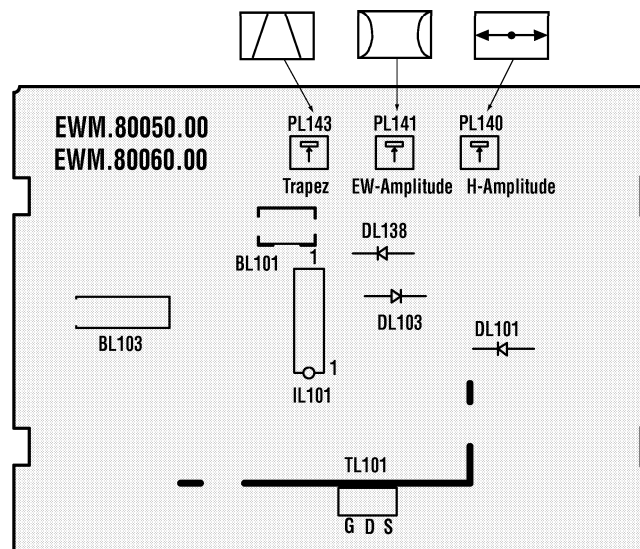
ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U G2 / CUTOFF	LL05	<p>Peak white pattern</p> <p> = 50%</p>	 <p>highest output</p> <p>CRT IB01: Pins 9 / 8 / 7</p>	 <p>V</p> <p>0</p>	<table><tr><th>Tube</th><th>V Cutoff</th></tr><tr><td>10" MP 90°</td><td>125V +/- 3V</td></tr><tr><td>14" MP 90°</td><td>125V +/- 3V</td></tr><tr><td>17" MP 90°</td><td>125V* +/- 3V</td></tr><tr><td>20" MP 90°</td><td>125V* +/- 3V</td></tr><tr><td>21" MP 90°</td><td>125V* +/- 3V</td></tr><tr><td>21" OT 90°</td><td>125V* +/- 3V</td></tr><tr><td>25" MP110°</td><td>125V* +/- 3V</td></tr></table> <p>140V: with IV001: TDA9554PS</p>	Tube	V Cutoff	10" MP 90°	125V +/- 3V	14" MP 90°	125V +/- 3V	17" MP 90°	125V* +/- 3V	20" MP 90°	125V* +/- 3V	21" MP 90°	125V* +/- 3V	21" OT 90°	125V* +/- 3V	25" MP110°	125V* +/- 3V																								
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25" MP110°	125V* +/- 3V																																												
FOCUS	LL05	<p>Contrast = 100% Brightness = 0%</p> <p></p> <p>Test pattern (standard values)</p>		Sharp picture																																									
<div>MAIN</div> <div>SYSTEM VOLTAGE</div> <div>+USYS</div>	PP051	<p> = 50%</p> <p>TV to AV : Black tes pattern</p> <p>AV </p>	 <p>DP 080</p> <p>+USYS</p> <p>CP80</p> <p>V</p>	<table><tr><th>Tube</th><th>Usys</th><th>RL090</th><th>JL981-982</th><th>JL991-992</th></tr><tr><td>10" MP 90°</td><td>98V +/- 0.5V</td><td>76k8</td><td>JL981</td><td>JL992</td></tr><tr><td>14" MP 90°</td><td>101V +/-0.5V</td><td>76k8</td><td>JL982</td><td>JL992</td></tr><tr><td>17" MP 90°</td><td>101V +/-0.5V</td><td>76k8</td><td>JL982</td><td>JL991</td></tr><tr><td>20"MP 90°</td><td>106V +/-0.5V</td><td>86k6</td><td>JL981</td><td>JL992</td></tr><tr><td>21"OT 90°</td><td>114V +/-0.5V</td><td>95k3</td><td>JL982</td><td>JL992</td></tr><tr><td>25"MP 110°</td><td>132V +/-0.5V</td><td>127k</td><td>JL982</td><td>JL992</td></tr><tr><td>28"MP 110°</td><td>132V +/-0.5V</td><td>127k</td><td>JL982</td><td>JL992</td></tr></table>	Tube	Usys	RL090	JL981-982	JL991-992	10" MP 90°	98V +/- 0.5V	76k8	JL981	JL992	14" MP 90°	101V +/-0.5V	76k8	JL982	JL992	17" MP 90°	101V +/-0.5V	76k8	JL982	JL991	20"MP 90°	106V +/-0.5V	86k6	JL981	JL992	21"OT 90°	114V +/-0.5V	95k3	JL982	JL992	25"MP 110°	132V +/-0.5V	127k	JL982	JL992	28"MP 110°	132V +/-0.5V	127k	JL982	JL992	
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EAST-WEST MODULE - MODULE EST-OUEST - OST-WEST-MODUL - MODULO EST-OVEST - MODULO ESTE-OESTE

GEOMETRY	TV : AV1 Test pattern Standard TV - Settings :  = 50%		Correct picture
EWM	PL140 PL141 PL143 SERVICE MODE	<div>  - Please refer to geometry Mode alignment (110° tube) , page 7, to adjust the East West Module (EWM). </div> <div>  - Se référer à la méthode d'alignement des géométries (tubes 110°), page 7 pour effectuer les réglages du Module Est-Ouest (EWM). </div> <div>  - Abgleich des Ost-West-Modules: Siehe Geometrie-Abgleich (110°), Seite 7. </div> <div>  - Per le regolazioni del Modulo Est-Ovest fare riferimento al modo allineamento geometria (tubi 110°), pagina 7. </div> <div>  - Para los ajustes del módulo Este-Oeste (EWM) ver la página 7, modo ajuste geometría (tubo 110°) </div>	<div>  </div> <div>  </div> <div>  </div>

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - LAGEPLAN EINSTELLER - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Focus and Screen voltages.

1. Service Mode Access

- 1.1 With the RCU, switch the TV set into the "Standby" mode.
- 1.2 Switch "Off" the TV set by mains supply switch (wait until LED is dark).
- 1.3 Whilst pressing the "Magenta (text)" button on the RCU switch "On" the TV set using the mains switch.
Continue to press the "Magenta (text)" button until the Service-setup Sub-menu appears.

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Service Menu

2.1 Navigation

- Press the \wedge/\vee buttons to select the menu line.
- Press the \langle/\rangle buttons to make adjustments or selection of a menu item.

2.2 Service-Menu lines

Set-up lines (INIT, STANDARD, OSDCONTR) -

Geometry lines (HS, VS, VA, SC, VSH)

Video lines (CL, BLORS/BLORP, BLOGS/BLOGP, WPRS/WPRP, WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) -

IF lines (TOP) -

Video processor (CD0, CD1, SYN0, SYN1, DEF, VI0, VI1, SOUND, CONT0, CONT1, FEAT0).

2.3 Activation of a line :

The first line (1) is continuously displayed. Sequential selection of the others lines in the Service Menu is possible by pressing the \wedge/\vee buttons on the RCU. The selected line will be highlighted in YELLOW text.

3. Alignment and storing new function value

- 3.1 The current value of the selected function is displayed in a hexadecimal form to the right of the function name. This value is adjusted by means of the RCU \langle/\rangle buttons.
- 3.2 The values will be stored in the non-volatile memory when leaving the service menu.
- 3.3 To leave the Service menu press the "Exit" button on the RCU.

4. Temporary exit from Service Mode

- 4.1 To temporary leave the Service Mode, press the "Exit" button on the RCU. To access the everyday menus, press the "Menu" button on the RCU.
- 4.2 To return to the Service Menu, press the "Magenta" button on the RCU

5. Leaving the Service Mode

- 5.1 To EXIT the Service Menu either press, the "Standby" button on the RCU or switch "Off" the mains supply to the TV.

Le mode service sert au réglage de l'appareil. Toutes les opérations de réglage s'effectuent à l'aide de la télécommande (sauf les réglages de Focus et de tension de grille-écran).

1. Accès au mode service

- 1.1 Commuter le téléviseur en position de veille avec la télécommande.
- 1.2 Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- 1.3 Maintenir la touche "Magenta (text)" enfoncée et mettre simultanément le téléviseur en marche avec l'interrupteur secteur. Ne pas relâcher la touche "Magenta (text)" jusqu'à apparition du menu

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Menu Service

2.1 Déplacement

- Appuyer sur la touche \wedge/\vee pour sélectionner une ligne de menu.
- Appuyer sur la touche \langle/\rangle pour un réglage ou une sélection d'une option.

2.2 Lignes de Menus du mode service

Set-up lines (INIT, STANDARD, OSDCONTR) -

Geometry lines (HS, VS, VA, SC, VSH)

Video lines (CL, BLORS/BLORP, BLOGS/BLOGP, WPRS/WPRP, WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) -

IF lines (TOP) -

Video processor (CD0, CD1, SYN0, SYN1, DEF, VI0, VI1, SOUND, CONT0, CONT1, FEAT0).

2.3 Sélection d'une ligne:

La première ligne (1) du menu est toujours affichée. De courtes pressions sur la touche " \wedge/\vee " sélectionnent séquentiellement les lignes (2) ou (3) du menu de service. La ligne activée est de couleur jaune.

3. Réglage des fonctions sélectionnées; mémorisation

- 3.1 La valeur momentanée de la fonction sélectionnée est indiquée sous forme hexadécimale à droite, à côté de la position à régler et peut être modifiée avec la télécommande par la touche \langle/\rangle .
- 3.2 La valeur de réglage est mémorisée dans la mémoire non volatile en sortie de mode service.
- 3.3 Appuyer sur la touche "Exit" pour sortir d'un sous-menu.

4. Sortie temporaire du mode service

- 4.1 Utiliser la touche "Exit" de la télécommande.
Le menu utilisateur peut-être accessible via la touche "Menu".
- 4.2 Pour entrer à nouveau dans le Menu Setup utiliser la touche magenta.

5. Sortie du mode service

- 5.1 Pour sortir du mode service, commuter le téléviseur en position de veille ou le mettre hors service par l'interrupteur secteur.

SERVICE-MODE



Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Fokuseinstellung und Schirmgitterspannung).

1. Service-Mode einschalten

- 1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
- 1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
- 1.3 Während Sie die margentafarbene Taste (**text**) auf der Fernbedienung gedrückt halten, schalten Sie das Gerät mit dem Netzschalter ein. Halten Sie die margentafarbene Taste solange gedrückt bis das Service Setup Sub-Menü erscheint.

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Service Menü

2.1 Navigation

- Drücken Sie die Tasten \wedge / \vee zum Auswählen der Menüzeile.
- Drücken Sie die \langle / \rangle -Tasten um eine Menüfunktion anzuwählen oder abzugleichen.

2.2 Service-Menü Zeilen

Set-up lines (INIT,STANDARD,OSDCONTR) -
Geometry lines (HS,VS, VA, SC,VSH)
Video lines (CL, BLORS/BLORP,BLOGS/BLOGP,WPRS/WPRP,WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Videoprocessor (CD0, CD1, SYN0, SYN1, DEF,VI0,VI1,SOUND,CONT0, CONT1,FEAT0).

2.3 Aktivierung einer Menüzeile:

Die erste Zeile (1) wird ständig angezeigt. Die Anwahl der Zeilen (2) und (3) im Service-Menü ist durch Drücken der \wedge / \vee - Tasten möglich. Die gewählte Zeile wird in gelber Farbe dargestellt.

3. Abgleich der gewählten Funktion und Speichern

- 3.1 Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugeichenden Position angegeben und kann mit der Taste \langle / \rangle auf der Fernbedienung verändert werden.
- 3.2 Die Werte werden nach dem Verlassen des Service-Menüs im nichtflüchtigen Speicher (EEPROM) abgelegt.
- 3.3 Drücken Sie **"Exit"** zum Verlassen eines Service Sub-Menüs.

4. Vorübergehendes verlassen des Service-Mode

- 4.1 Auf der Fernbedienung Exit drücken.
Mit der Tasten Menü gelangen Sie zum Menü-Übersicht.
- 4.2 Durch Drücken der margentafarbenen Taste gelangen Sie in das Service Setup Sub-Menü.

5. Service-Mode verlassen

- 5.1 Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

MODO SERVICIO



Se necesita el MODO SERVICIO para ajustar el aparato. Todos los ajustes se hacen con el mando a distancia (a excepción de la tensión del sistema, los ajustes del foco y las tensiones de la rejilla de pantalla).

1. Ajustar el Modo Servicio

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- 1.3 Mientras mantiene pulsado el botón **"Magenta (texto)"** de la UCR, pulse el interruptor general de red para encender el televisor. Mantenga pulsado el botón **"Magenta (texto)"** hasta que aparezca el submenú de la configuración del servicio.

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Menú Servicio.

- 2.1 Desplazamiento
 - Pulse el botón \wedge / \vee para seleccionar la línea del menú.
 - Pulse el botón \langle / \rangle para ajustar o seleccionar una opción del menú.

SERVICE-MODE



Il Service-Mode è necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (tranne le regolazioni del fuoco e le tensioni della griglia schermo).

1. Attivazione del Service-Mode

- 1.1 Commutare il televisore in stand-by con il telecomando.
- 1.2 Spegner l'apparecchio con l'interruttore di rete (attendere finché il LED è spento)
- 1.3 Mentre tenete premuto il pulsante **"Magenta (testo)"** del RCU, accendete il televisore utilizzando l'interruttore di rete. Continuate a premere il pulsante **"Magenta (testo)"** del RCU fino all'apparizione del Service Setup Sub Menu

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Service Menu

2.1 Navigazione

- Premere i tasti \wedge / \vee per selezionare la linea del menu
- Premere i tasti \langle / \rangle per la regolazione o la selezionz di un elemento del menu

2.2 Linee Service Menu

Set-up lines (INIT,STANDARD,OSDCONTR) -
Geometry lines (HS,VS, VA, SC,VSH)
Video lines (CL, BLORS/BLORP,BLOGS/BLOGP,WPRS/WPRP,WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Videoprocessor (CD0, CD1, SYN0, SYN1, DEF,VI0,VI1,SOUND,CONT0, CONT1,FEAT0).

2.3 Attivazione di una linea :

La prima linea (1) è continuamente visualizzata. La selezione delle linee successive (2) o (3) è possibile in service menu premendo i tasti \wedge / \vee . la linea selezionata sarà visualizzata di colore giallo.

3. Taratura della funzione scelta e memorizzazione

- 3.1 Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alla posizione da allineare e può essere cambiato con il pulsante \langle / \rangle del telecomando.
- 3.2 I valori verranno memorizzati nella memoria num quando verrà lasciato il menù service mode.
- 3.3 Premere il tasto **"Exit"** per uscire da qualsiasi Service Sub Menu.

4. Uscita temporanea dal Service Mode

- 4.1 Premere Exit sul telecomando.
Al menu di uso quotidiano si accede attraverso il pulsante Menu.
- 4.2 Il Service Setup Sub Menu è accessibile attraverso il tasto **"Magenta"**.

5. Disattivazione del Service-Mode

- 5.1 Per disattivare il Service Mode, commutare l'apparecchio in stand-by o spegnerlo con l'interruttore di rete.

2.2 Líneas del menú del Modo Servicio

Set-up lines (INIT,STANDARD,OSDCONTR) -
Geometry lines (HS,VS, VA, SC,VSH)
Video lines (CL, BLORS/BLORP,BLOGS/BLOGP,WPRS/WPRP,WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Videoprocessor (CD0, CD1, SYN0, SYN1, DEF,VI0,VI1,SOUND,CONT0, CONT1,FEAT0).

2.3 Activación de una línea :

La primera línea (1) se muestra siempre en la pantalla. La selección secuencial de las líneas (2) y (3), es posible pulsando las teclas \wedge / \vee . La línea seleccionada es la que está en color amarillo

3. Ajuste de la función elegida y almacenamiento

- 3.1 El valor momentáneo de la función elegida es indicado de modo hexadecimal a la derecha, al lado de la posición a ajustar, y puede cambiarse con la tecla \langle / \rangle o bien en el mando a distancia.
- 3.2 Los valores serán memorizados en la EEPROM al salir del menú del Modo Servicio.
- 3.3 Pulse el botón **"Exit"** para salir de cualquier submenú Servicio.

4. Salida temporal del Modo Servicio

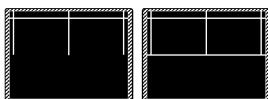
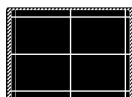
- 4.1 Pulse Salir en el mando a distancia.
Con el botón Menu puede acceder al menú de uso cotidiano.
- 4.2 Puede acceder al submenú de configuración del servicio mediante el botón **"Magenta"**.

5. Salir del Modo Servicio

- 5.1 Conmute el aparato a STANDBY a fin de salir del MODO SERVICIO o desconectar con el interruptor de la red.

SET-UP LINES	
ID 02.11	
INIT	
STANDARD*	00 0-03
KEY	◀ OFF OFF-ON ▶
OSDCONTR	03 0-0F
WBF-R*	88 0-FF
SOC1-0	2F 0-3F
OIFP**	20 0-3F
ID 00.07	
INIT	
Initialise TV set. Sets all Service Mode functions stored in the EEPROM to their default values. See below the default values table.	
⚠ "INIT" copy all service parameters from the ROM to EEPROM. It will be necessary in this case to readjust most of the service mode functions.	
⚠ "INIT" copie toutes les valeurs par défaut stockées en ROM vers l'EEPROM. Il peut être nécessaire dans ce cas de reprendre la plupart des réglages du mode service.	
⚠ "INIT" kopiert alle Service-Parameter aus dem ROM in das EEPROM. Es ist anschließend notwendig die meisten Service-Funktionen neu abzugleichen	
⚠ "INIT" copia tutti i parametri di servizio dalla ROM alla EEPROM. Sarà necessario in seguito regolare alcune funzioni in Service Mode.	
⚠ "INIT" copia todos los valores por defecto memorizados en la ROM hacia la EEPROM. Puede ser necesario en el caso de tener que reajustar la mayor parte de los ajustes en Modo Servicio.	
STANDARD RF Norm Group Selection	
00 EU	BG / LL*
01 FR	LL* / BG
02 UK	PAL I only
03 DK	DKK* PAL, SECAM
ROM Default Value : TX 807 C / CS Europe : 00 EU	
KEY	Key lock ON/OFF... Default value : OFF
OSDCONTR	factory Setting Full-page video text contrast OSDCONTR = 03H
WBF-R*	factory Setting Timing of "wide blanking" WBF-R = 88H
SOC1-0	Specific TDA9554PS (UOC-N2)
Peak White Limiting	factory Setting SOC1=2FH
OIF Offset IF demodulator	Specific TDA9554PS (UOC-N2) factory Setting OIF=20H

V-Slope



Correct















incorrect

GEOMETRY LINES*	
HS	20 0-3F
VS	◀ 1A 0-3F ▶
VA	20 0-3F
SC	10 0-3F
VSH	20 0-3F
HS	
VS	
V_Slope	
<ul style="list-style-type: none"> Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen. Select the "VS" line of the menu. The bottom half of the screen will go black. Adjust VS until the centre line of the pattern is just invisible. Leave the line "V_Slope". Switch the test pattern signal to the crosshatch geometry pattern. Perform the geometry adjustments described below. 	
<ul style="list-style-type: none"> Appliquer une mire de barres avec seulement une ligne blanche horizontale en milieu de l'écran. Sélectionner la ligne "V-Slope". La moitié basse de l'écran devient noire. Aligner "V_Slope" pour que la ligne médiane soit à peine non visible. Commencer la mise en mode de réglage de géométrie (quadrillage). Effectuer les réglages de géométrie ci-après. 	
<ul style="list-style-type: none"> Speisen Sie ein Testbild mit einem horizontalen Strich in der Bildmitte ein. Wählen Sie im Menü die Funktion "V-Slope" an. Die untere Bildhälfte wird dunkel. Stellen Sie "V-Slope" so ein, daß die Mittellinie fast verschwindet. Verlassen Sie die Funktion "V-Slope". Speisen Sie ein Gittertestbild ein.Nehmen Sie die Geometrieinstellungen wie nebenstehend beschrieben vor. 	
<ul style="list-style-type: none"> Applicare un monoscopio con un'unica linea bianca orizzontale al centro dello schermo Selezionare la riga "V slope" del menu. La parte bassa dello schermo viene oscurata. Allineare la "Vertical Slope" in modo che la linea centrale sia appena visibile Abbandonare la riga "V slope". Posizionare il monoscopio Effettuare le regolazioni di geometria descritte in precedenza Memorizzare. 	
<ul style="list-style-type: none"> Aplique una carta de ajuste con sólo una línea blanca horizontal y una vertical en el centro de la pantalla. Seleccionar en el menú, la línea "V-Slope". La mitad inferior de la pantalla se pondrá oscura. Ajuste "V-Slope" justo hasta que la línea horizontal sea invisible. Cambiar la carta de ajuste a "cuadrícula" y efectuar los ajustes de geometría descritos a continuación Antes de salir, memorizar con "Store" 	
VA	
SC	
VSH	

* According to software version.

** S * : Video signal received is SECAM.

* P * : Video signal received is PAL.

VIDEO LINES																						
CL	◀ 00 0-0F ▶																					
BLORS*	08 0-0F																					
BLOGS*	08 0-0F																					
WPRS*	20 0-3F																					
WPGS*	20 0-3F																					
WPBS*	20 0-3F																					
PWS*	20 20 20 0-3F																					
BKS*	ON OFF-ON																					
YD	08 0-0F																					
CL Cathode Level	Factory setting. Extension of the peak White range. Réglage usine. Extension des valeurs de réglages du Peak White. Fabrik-Einstellung (Umfang des Spitzenweiß Einbereiches) Factory Setting. Extension of the peak White range. Ajuste de fábrica Extensión del margen del Peak White.																					
Cut-off **		 +  +  = 50% Grey scale test pattern white =100%  ↑ grey																				
BLORS / BLORP Black Level Offset Red SECAM/PAL																						
BLOGS / BLOGP Black Level Offset Green SECAM/PAL																						
Drive**		 +  +  = 50% Grey scale test pattern white =100%  ↑ white																				
WPRS / WPRP White Point Red SECAM/PAL																						
WPGS / WPGP White Point Green SECAM/PAL																						
WPBS / WPBP White Point Blue SECAM/PAL																						
PWS / PWP** Peak White SECAM/PAL	 +  +  = 50% colourimeter <table><tr><th>Sets</th><th>Nits</th><th>Sets</th><th>Nits</th></tr><tr><td>10"</td><td>500</td><td>21"OT</td><td>420</td></tr><tr><td>14"</td><td>450</td><td>21"MP 90"</td><td>450</td></tr><tr><td>17"</td><td>450</td><td>25"MP 110"</td><td>400</td></tr><tr><td>20"FB</td><td>450</td><td>28"MP 110"</td><td>300</td></tr></table>		Sets	Nits	Sets	Nits	10"	500	21"OT	420	14"	450	21"MP 90"	450	17"	450	25"MP 110"	400	20"FB	450	28"MP 110"	300
Sets	Nits	Sets	Nits																			
10"	500	21"OT	420																			
14"	450	21"MP 90"	450																			
17"	450	25"MP 110"	400																			
20"FB	450	28"MP 110"	300																			
BKS Black Stretch	Factory Setting																					
YD Luminance Delay		Use ◀ ▶ to adapt the image																				

*Perform the G2 and the Focus settings beforehand.

Effectuez au préalable les réglages de G2 et de focus.

Stellen Sie zuvor G2 und "Focus" ein.

Effettuare le regolazioni G2 e del Fuoco innanzitutto.

Efectuar previamente los ajustes de G2 y Foco

** Adjust separate for PAL / SECAM

* S * : Video signal received is SECAM.

* P * : Video signal received is PAL.

IF LINES	
TOP	◀ 20 0-0F ▶
FFI	00 0-01
ACL*	00 0-01
TOP	AGC - Take Over
<ul style="list-style-type: none"> Minimum noise- Minimum de bruit Minimum Rauschen - Rumore minimo Minimo ruido 	
<ul style="list-style-type: none"> Set TOP to 00 Adjust TOP for maximum gain of IF signal. Reduce IF level about 8dB. 	
ROM Default Value : AGC : 20	
FFI*	Fast Filter (IF / PLL)
Fast Filter IF-PLL	<ul style="list-style-type: none"> Fast Filter (IF / PLL) Filtre rapide (FI / PLL) Schnelles Filter (ZF / PLL) Filtro / rapido (IF / PLL) 00 : Europ Factory Setting.
ACL*	Automatic Colour limiting
ACL=00	Factory Setting.
VIDEO PROCESSOR LINES	
CD0	84 0-FF
CD1	00 0-FF
SYN0	◀ 30 0-FF ▶
SYN1	08 0-FF
DEF	00 0-0F
V10	00 0-0F
V11	00 0-0F
SOUND	00 0-FF
CONT0	46 0-FF
CONT1	00 0-0F
SOUND1	00 0-FF
FEAT0	00 0-01
FEAT1	00 0-01
LOCK	00 0-01
LIMIT	00 0-01
CD0	- Colour Decoder 0 = 84
CD1	- Colour Decoder 1
mono sets: CD1 = 80H	
stereo sets: CD1 = 00H	
Factory Setting.	
SYN0	- Synchronisation 0 = 30
SYN1	- Synchronisation 1 = 1C
Factory Setting.	
DEF	- Deflection = 00
Factory Setting.	
V10	- Vision IF 0 = 40
V11	- Vision IF 1 = 00
Factory Setting.	
SOUND	- Sound = 00
Factory Setting.	
CONT0	- Control 0 = 40
CONT0	- Control 1 = 00
Factory Setting.	
FEAT0	- Features 0 = 00
Factory Setting.	

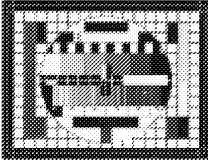




* According to software version.

OSD	DESCRIPTION	DEFAULT VALUE (HEX)
ID	Software	
INIT	Initialise TV set	
STANDARD	RF Norm Group Selection	0 (EU)
KEY	Key Lock	OFF
OSDCONTR	OSD Contrast	03
WBF-R	Timing of wide blanking	88
SOC1-0	Peak White Limiting	08
OIFS	Offset IF demodulator	20
FR	France	00
HS	Horizontal Shift	20
VS	Vertical Slope	1A
VA	Vertical Amplitude	20
SC	S-Correction	10
VSH	Vertical Shift	20
CL	Cathode Level	00
BLORS	Black Level Offset Red SECAM	8
BLORP	Black Level Offset Red PAL	8
BLOGS	Black Level Offset Green SECAM	8
BLOGP	Black Level Offset Green SECAM	8
WPRS	White Point Red SECAM	20
WPRP	White Point Red PAL	20
WPGS	White Point Green SECAM	20
WPGP	White Point Green PAL	20
WPBS	White Point Blue SECAM	20
WPBP	White Point Blue PAL	20
PWS	Peak White SECAM	20
PWP	Peak White PAL	20
BKS	Black Stretch	01
YD	Luminance Delay	08
TOP	AGC Take-Over	20
FFI	Fast Filter IF-PLL	00
ACL	Automatic Colour limiting	00
CD0	Colour Decoder 0	84
CD1	Colour Decoder 1	Mono : 80 Stereo: 00
SYN0	Synchronisation 0	30
SYN1	Synchronisation 1	1C
DEF	Deflection	00
V10	Vision IF 0	40
V11	Vision IF 1	00
SOUND	Sound	00
CONT0	Control 0	40
CONT1	Control 1	00
FEAT0	Features 0	00

GEOMETRY MODE ALIGNMENT

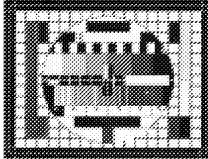







90° tube

Signal : 50 Hz - 4/3 test pattern

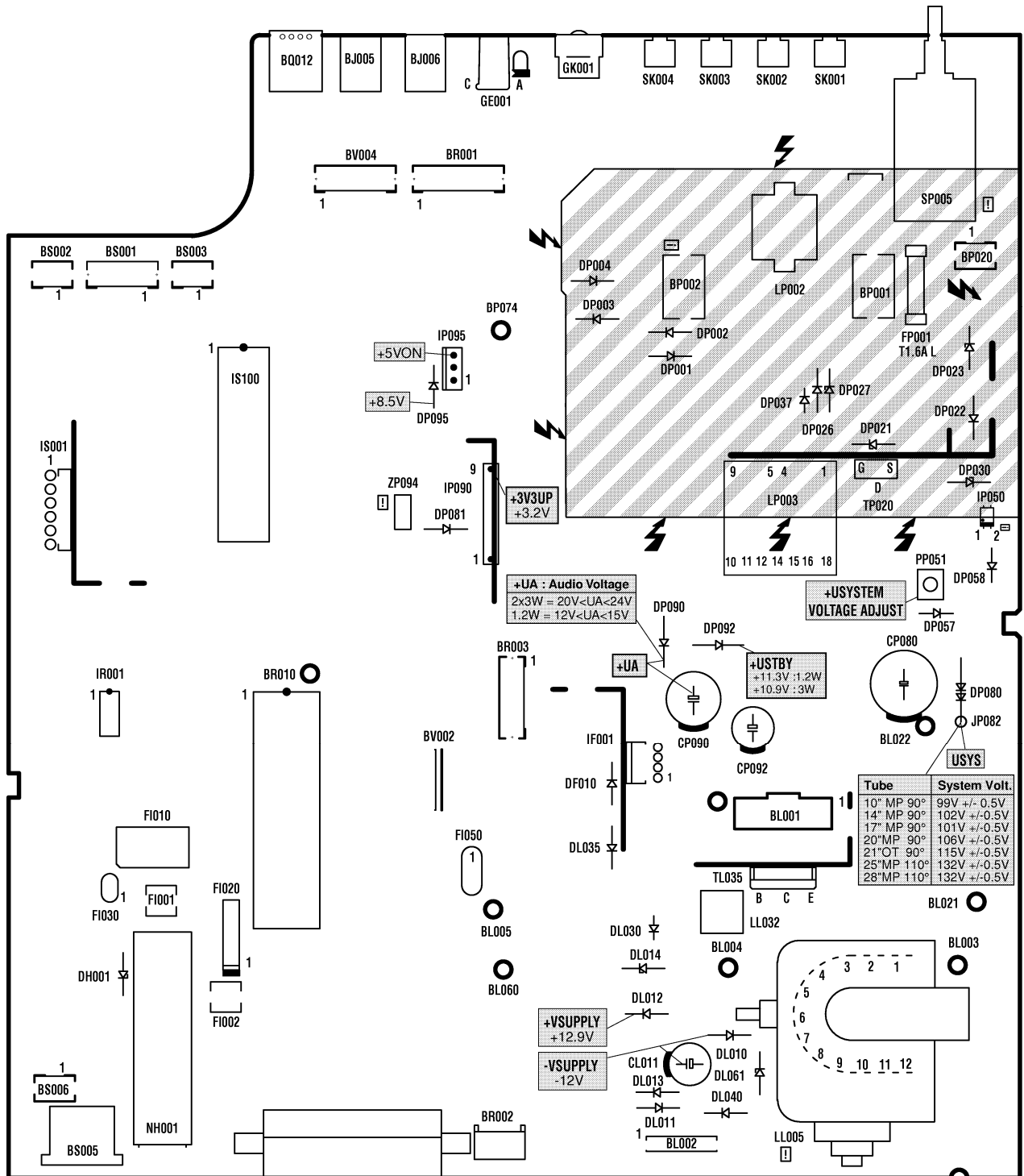
<p>4 / 3 standard mode</p>		<p>Overscan V=107% , H=107%</p> <p>1 - Adjust Horizontal Centering (HS)</p>  <p>2 - Adjust Vertical centering (VSH) and Vertical amplitude 107% (VA) 3 - Adjust Vertical Slope (VS) and linearity (SC)</p>    <p>4-If necessary repeat VSH, VA alignment to 7% overscan.</p>
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110° tube

Signal : 50 Hz - 4/3 test pattern

<p>4 / 3 standard mode</p>		<p>Overscan V=107% , H=107%</p> <p>EAST-WEST MODULE</p> <p>1 - PL140 : Turn fully counterclockwise.</p> <p>MAIN BOARD</p> <p>2 - Adjust Horizontal Centering (HS)</p>  <p>3 - Adjust Vertical centering (VSH) and Vertical amplitude 107% (VA) 4 - Adjust Vertical Slope (VS) and linearity (SC)</p>    <p>5 - If necessary repeat VSH, VA alignment to 7% overscan.</p> <p>EAST-WEST MODULE</p> <p>6 - PL140 : Adjust Horizontal amplitude with PL140 for optimum overscan</p>  <p>7 - PL141 :Adjust Pincushion.</p>  <p>8 - PL143 : Adjust Trapezium</p>  <p>9 -If necessary repeat Horizontal amplitude, pincushion correction and trapezium alignment</p>
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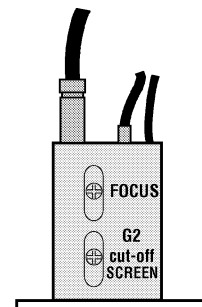
LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - LAGEPLAN EINSTELLER - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



Part of board connected to mains supply.
 Partie du châssis reliée au secteur.
 Primärseite des Netzteils.
 Parte dello chassis collegata alla rete.
 Parte del chasis conectada a la red



Use isolating mains transformer -
 Utiliser un transformateur isolateur du secteur -
 Trenntrafo verwenden -
 Utilizar un transformador aislador de red -
 Utilizzare un trasformatore per isolarvi dalla rete



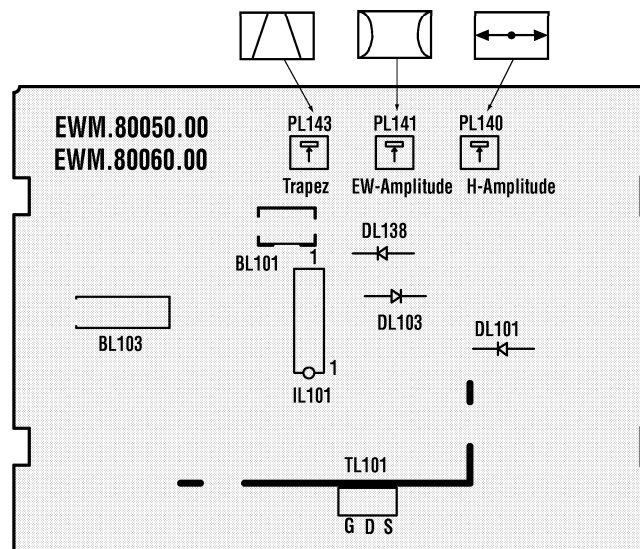
ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U G2 / CUTOFF	LL05	<p>Peak white pattern</p> <p> = 50%</p>	<p>highest output</p> <p>CRT IB01: Pins 9 / 8 / 7</p>	<p>V</p> <p>0</p>	<table><tr><th>Tube</th><th>V Cutoff</th></tr><tr><td>10" MP 90°</td><td>125V +/- 3V</td></tr><tr><td>14" MP 90°</td><td>125V +/- 3V</td></tr><tr><td>17" MP 90°</td><td>125V* +/- 3V</td></tr><tr><td>20" MP 90°</td><td>125V* +/- 3V</td></tr><tr><td>21" MP 90°</td><td>125V* +/- 3V</td></tr><tr><td>21" OT 90°</td><td>125V* +/- 3V</td></tr><tr><td>25" MP110°</td><td>125V* +/- 3V</td></tr></table> <p>140V: with IV001: TDA9554PS</p>	Tube	V Cutoff	10" MP 90°	125V +/- 3V	14" MP 90°	125V +/- 3V	17" MP 90°	125V* +/- 3V	20" MP 90°	125V* +/- 3V	21" MP 90°	125V* +/- 3V	21" OT 90°	125V* +/- 3V	25" MP110°	125V* +/- 3V																								
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25" MP110°	125V* +/- 3V																																												
FOCUS	LL05	<p>Contrast = 100% Brightness = 0%</p> <p> Test pattern (standard values)</p>		Sharp picture																																									
<div>MAIN</div> <p>SYSTEM VOLTAGE</p> <p>+USYS</p>	PP051	<p> = 50%</p> <p>TV to AV : Black tes pattern</p> <p>AV </p>	<p>DP 080</p> <p>+USYS</p> <p>CP80</p> <p>V</p>	<table><tr><th>Tube</th><th>Usys</th><th>RL090</th><th>JL981-982</th><th>JL991-992</th></tr><tr><td>10" MP 90°</td><td>98V +/- 0.5V</td><td>76k8</td><td>JL981</td><td>JL992</td></tr><tr><td>14" MP 90°</td><td>101V +/-0.5V</td><td>76k8</td><td>JL982</td><td>JL992</td></tr><tr><td>17" MP 90°</td><td>101V +/-0.5V</td><td>76k8</td><td>JL982</td><td>JL991</td></tr><tr><td>20"MP 90°</td><td>106V +/-0.5V</td><td>86k6</td><td>JL981</td><td>JL992</td></tr><tr><td>21"OT 90°</td><td>114V +/-0.5V</td><td>95k3</td><td>JL982</td><td>JL992</td></tr><tr><td>25"MP 110°</td><td>132V +/-0.5V</td><td>127k</td><td>JL982</td><td>JL992</td></tr><tr><td>28"MP 110°</td><td>132V +/-0.5V</td><td>127k</td><td>JL982</td><td>JL992</td></tr></table>	Tube	Usys	RL090	JL981-982	JL991-992	10" MP 90°	98V +/- 0.5V	76k8	JL981	JL992	14" MP 90°	101V +/-0.5V	76k8	JL982	JL992	17" MP 90°	101V +/-0.5V	76k8	JL982	JL991	20"MP 90°	106V +/-0.5V	86k6	JL981	JL992	21"OT 90°	114V +/-0.5V	95k3	JL982	JL992	25"MP 110°	132V +/-0.5V	127k	JL982	JL992	28"MP 110°	132V +/-0.5V	127k	JL982	JL992	
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EAST-WEST MODULE - MODULE EST-OUEST - OST-WEST-MODUL - MODULO EST-OVEST - MODULO ESTE-OESTE

GEOMETRY	TV : AV1 Test pattern Standard TV - Settings : 		Correct picture
EWM	PL140 PL141 PL143 SERVICE MODE	<div> - Please refer to geometry Mode alignment (110° tube) , page 7, to adjust the East West Module (EWM). </div> <div> - Se référer à la méthode d'alignement des géométries (tubes 110°), page 7 pour effectuer les réglages du Module Est-Ouest (EWM). </div> <div> - Abgleich des Ost-West-Modules: Siehe Geometrie-Abgleich (110°), Seite 7. </div> <div> - Per le regolazioni del Modulo Est-Ovest fare riferimento al modo allineamento geometria (tubi 110°), pagina 7. </div> <div> - Para los ajustes del módulo Este-Oeste (EWM) ver la página 7, modo ajuste geometría (tubo 110°) </div>	
	<div> </div> <div> </div> <div> </div>		

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - LAGEPLAN EINSTELLER - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



SERVICE-MODE



It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Focus and Screen voltages.

1. Service Mode Access

- 1.1 With the RCU, switch the TV set into the "**Standby**" mode.
- 1.2 Switch "**Off**" the TV set by mains supply switch (wait until LED is dark).
- 1.3 Whilst pressing the "**Magenta** (text)" button on the RCU switch "**On**" the TV set using the mains switch.
Continue to press the "**Magenta** (text)" button until the Service-setup Sub-menu appears.

ID 00.07

(1)

INIT < >

(2)

STANDARD 00 0-03

(3)

2. Service Menu

2.1 Navigation

- Press the \wedge / \vee buttons to select the menu line.
- Press the \langle / \rangle buttons to make adjustments or selection of a menu item.

2.2 Service-Menu lines

Set-up lines (INIT, STANDARD, OSDCONTR) -
Geometry lines (HS, VS, VA, SC, VSH)
Video lines (CL, BLORS/BLORP, BLOGS/BLOGP, WPRS/WPRP, WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) -
IF lines (TOP) -
Video processor (CD0, CD1, SYN0, SYN1, DEF, VI0, VI1, SOUND, CONT0, CONT1, FEAT0).

2.3 Activation of a line :

The first line (1) is continuously displayed. Sequential selection of the others lines in the Service Menu is possible by pressing the \wedge / \vee buttons on the RCU. The selected line will be highlighted in YELLOW text.

3. Alignment and storing new function value

- 3.1 The current value of the selected function is displayed in a hexadecimal form to the right of the function name. This value is adjusted by means of the RCU \langle / \rangle buttons.
- 3.2 The values will be stored in the non-volatile memory when leaving the service menu.
- 3.3 To leave the Service menu press the "**Exit**" button on the RCU.

4. Temporary exit from Service Mode

- 4.1 To temporary leave the Service Mode, press the "**Exit**" button on the RCU. To access the everyday menus, press the "**Menu**" button on the RCU.
- 4.2 To return to the Service Menu, press the "**Magenta**" button on the RCU

5. Leaving the Service Mode

- 5.1 To **EXIT** the Service Menu either press, the "**Standby**" button on the RCU or switch "**Off**" the mains supply to the TV.

MODE SERVICE



Le mode service sert au réglage de l'appareil. Toutes les opérations de réglage s'effectuent à l'aide de la télécommande (sauf les réglages de Focus et de tension de grille-écran).

1. Accès au mode service

- 1.1 Commuter le téléviseur en position de veille avec la télécommande.
- 1.2 Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- 1.3 Maintenir la touche "**Magenta** (text)" enfoncée et mettre simultanément le téléviseur en marche avec l'interrupteur secteur.
Ne pas relâcher la touche "**Magenta** (text)" jusqu'à apparition du menu

ID 00.07

(1)

INIT

(2)

STANDARD 00 0-03

(3)

2. Menu Service

2.1 Déplacement

- Appuyer sur la touche \wedge / \vee pour sélectionner une ligne de menu.
- Appuyer sur la touche \langle / \rangle pour un réglage ou une sélection d'une option.

2.2 Lignes de Menus du mode service

Set-up lines (INIT, STANDARD, OSDCONTR) -
Geometry lines (HS, VS, VA, SC, VSH)
Video lines (CL, BLORS/BLORP, BLOGS/BLOGP, WPRS/WPRP, WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Video processor (CD0, CD1, SYN0, SYN1, DEF, VI0, VI1, SOUND, CONT0, CONT1, FEAT0).

2.3 Sélection d'une ligne:

La première ligne (1) du menu est toujours affichée.
De courtes pressions sur la touche " \wedge / \vee " sélectionnent séquentiellement les lignes (2) ou (3) du menu de service.
La ligne activée est de couleur jaune.

3. Réglage des fonctions sélectionnées; mémorisation

- 3.1 La valeur momentanée de la fonction sélectionnée est indiquée sous forme hexadécimale à droite, à côté de la position à régler et peut être modifiée avec la télécommande par la touche \langle / \rangle .
- 3.2 La valeur de réglage est mémorisée dans la mémoire non volatile en sortie de mode service.
- 3.3 Appuyer sur la touche "**Exit**" pour sortir d'un sous-menu.

4. Sortie temporaire du mode service

- 4.1 Utiliser la touche "**Exit**" de la télécommande.
Le menu utilisateur peut-être accessible via la touche "**Menu**".
- 4.2 Pour entrer à nouveau dans le Menu Setup utiliser la touche magenta.

5. Sortie du mode service

- 5.1 Pour sortir du mode service, commuter le téléviseur en position de veille ou le mettre hors service par l'interrupteur secteur.

SERVICE-MODE



Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Fokuseinstellung und Schirmgitterspannung).

1. Service-Mode einschalten

- 1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
- 1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
- 1.3 Während Sie die margentafarbene Taste (**text**) auf der Fernbedienung gedrückt halten, schalten Sie das Gerät mit dem Netzschalter ein. Halten Sie die margentafarbene Taste solange gedrückt bis das Service Setup Sub-Menü erscheint.

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Service Menü

2.1 Navigation

- Drücken Sie die Tasten Δ / ∇ zum Auswählen der Menüzeile.
- Drücken Sie die \leftarrow / \rightarrow -Tasten um eine Menüfunktion anzuwählen oder abzugleichen.

2.2 Service-Menü Zeilen

Set-up lines (INIT,STANDARD,OSDCONTR) -
Geometry lines (HS,VS, VA, SC,VSH)
Video lines (CL, BLORS/BLORP,BLOGS/BLOGP,WPRS/WPRP,WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Videoprocessor (CD0, CD1, SYN0, SYN1, DEF,VI0,VI1,SOUND,CONT0, CONT1,FEAT0).

2.3 Aktivierung einer Menüzeile:

Die erste Zeile (1) wird ständig angezeigt. Die Anwahl der Zeilen (2) und (3) im Service-Menü ist durch Drücken der Δ / ∇ -Tasten möglich. Die gewählte Zeile wird in gelber Farbe dargestellt.

3. Abgleich der gewählten Funktion und Speichern

- 3.1 Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugleichenden Position angegeben und kann mit der Taste \leftarrow / \rightarrow auf der Fernbedienung verändert werden.
- 3.2 Die Werte werden nach dem Verlassen des Service-Menüs im nichtflüchtigen Speicher (EEPROM) abgelegt.
- 3.3 Drücken Sie **"Exit"** zum Verlassen eines Service Sub-Menüs.

4. Vorübergehendes verlassen des Service-Mode

- 4.1 Auf der Fernbedienung Exit drücken.
Mit der Tasten Menü gelangen Sie zum Menü-Übersicht.
- 4.2 Durch Drücken der margentafarbenen Taste gelangen Sie in das Service Setup Sub-Menü.

5. Service-Mode verlassen

- 5.1 Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

MODOSERVICIO



Se necesita el MODO SERVICIO para ajustar el aparato. Todos los ajustes se hacen con el mando a distancia (a excepción de la tensión del sistema, los ajustes del foco y las tensiones de la rejilla de pantalla).

1. Ajustar el Modo Servicio

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- 1.3 Mientras mantiene pulsado el botón **"Magenta (texto)"** de la UCR, pulse el interruptor general de red para encender el televisor.
Mantenga pulsado el botón **"Magenta (texto)"** hasta que aparezca el submenú de la configuración del servicio.

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Menú Servicio.

2.1 Desplazamiento

- Pulse el botón Δ / ∇ para seleccionar la línea del menú.
- Pulse el botón \leftarrow / \rightarrow para ajustar o seleccionar una opción del menú.

SERVICE-MODE



Il Service-Mode è necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (tranne le regolazioni del fuoco e le tensioni della griglia schermo).

1. Attivazione del Service-Mode

- 1.1 Commutare il televisore in stand-by con il telecomando.
- 1.2 Spegner l'apparecchio con l'interruttore di rete (attendere finché il LED è spento)
- 1.3 Mentre tenete premuto il pulsante **"Magenta (testo)"** del RCU, accendete il televisore utilizzando l'interruttore di rete. Continuate a premere il pulsante **"Magenta (testo)"** del RCU fino all'apparizione del Service Setup Sub Menu

ID 00.07	(1)
INIT	(2)
STANDARD 00 0-03	(3)

2. Service Menu

2.1 Navigazione

- Premere i tasti Δ / ∇ per selezionare la linea del menu
- Premere i tasti \leftarrow / \rightarrow per la regolazione o la selezionz di un elemento del menu

2.2 Linee Service Menu

Set-up lines (INIT,STANDARD,OSDCONTR) -
Geometry lines (HS,VS, VA, SC,VSH)
Video lines (CL, BLORS/BLORP,BLOGS/BLOGP,WPRS/WPRP,WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Videoprocessor (CD0, CD1, SYN0, SYN1, DEF,VI0,VI1,SOUND,CONT0, CONT1,FEAT0).

2.3 Attivazione di una linea :

La prima linea (1) è continuamente visualizzata. La selezione delle linee successive (2) o (3) è possibile in service menu premendo i tasti Δ / ∇ . la linea selezionata sarà visualizzata di colore giallo.

3. Taratura della funzione scelta e memorizzazione

- 3.1 Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alla posizione da allineare e può essere cambiato con il pulsante \leftarrow / \rightarrow del telecomando.
- 3.2 I valori verranno memorizzati nella memoria num quando verrà lasciato il menù service mode.
- 3.3 Premere il tasto **"Exit"** per uscire da qualsiasi Service Sub Menu.

4. Uscita temporanea dal Service Mode

- 4.1 Premere Exit sul telecomando.
Al menu di uso quotidiano si accede attraverso il pulsante Menu.
- 4.2 Il Service Setup Sub Menu è accessibile attraverso il tasto **"Magenta"**.

5. Disattivazione del Service-Mode

- 5.1 Per disattivare il Service Mode, commutare l'apparecchio in stand-by o spegnerlo con l'interruttore di rete.

2.2 Líneas del menú del Modo Servicio

Set-up lines (INIT,STANDARD,OSDCONTR) -
Geometry lines (HS,VS, VA, SC,VSH)
Video lines (CL, BLORS/BLORP,BLOGS/BLOGP,WPRS/WPRP,WPGS/WPGP, WPBS/WBPB, PWS/PWP, BKS, YD) - **IF lines** (TOP) -
Videoprocessor (CD0, CD1, SYN0, SYN1, DEF,VI0,VI1,SOUND,CONT0, CONT1,FEAT0).

2.3 Activación de una línea :

La primera línea (1) se muestra siempre en la pantalla. La selección secuencial de las líneas (2) y (3), es posible pulsando las teclas Δ / ∇ . La línea seleccionada es la que está en color amarillo

3. Ajuste de la función elegida y almacenamiento

- 3.1 El valor momentáneo de la función elegida es indicado de modo hexadecimal a la derecha, al lado de la posición a ajustar, y puede cambiarse con la tecla \leftarrow o bien \rightarrow en el mando a distancia.
- 3.2 Los valores serán memorizados en la EEPROM al salir del menú del Modo Servicio.
- 3.3 Pulse el botón **"Exit"** para salir de cualquier submenú Servicio.

4. Salida temporal del Modo Servicio

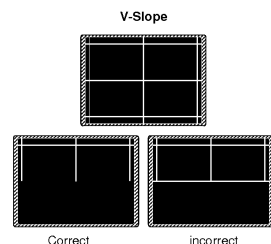
- 4.1 Pulse Salir en el mando a distancia.
Con el botón Menu puede acceder al menú de uso cotidiano.
- 4.2 Puede acceder al submenú de configuración del servicio mediante el botón **"Magenta"**.

5. Salir del Modo Servicio

- 5.1 Conmute el aparato a STANDBY a fin de salir del MODO SERVICIO o desconectar con el interruptor de la red.











ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

SET-UP LINES		
ID 02.11		
INIT		
STANDARD*	00	0-03
KEY	◀ OFF	OFF-ON ▶
OSDCONTR	03	0-0F
WBF-R*	88	0-FF
SOC1-0	23	0-3F
OIFP**	20	0-3F
ID 00.07		
INIT		
Initialise TV set. Sets all Service Mode functions stored in the EEPROM to their default values. See below the default values table.		
⚠ "INIT" copy all service parameters from the ROM to EEPROM. It will be necessary in this case to readjust most of the service mode functions.		
⚠ "INIT" copie toutes les valeurs par défaut stockées en ROM vers l'EEPROM. Il peut être nécessaire dans ce cas de reprendre la plupart des réglages du mode service.		
⚠ "INIT" kopiert alle Service-Parameter aus dem ROM in das EEPROM. Es ist anschließend notwendig die meisten Service-Funktionen neu abzugleichen		
⚠ "INIT" copia tutti i parametri di servizio dalla ROM alla EEPROM. Sarà necessario in seguito regolare alcune funzioni in Service Mode.		
⚠ "INIT" copia todos los valores por defecto memorizados en la ROM hacia la EEPROM. Puede ser necesario en el caso de tener que reajustar la mayor parte de los ajustes en Modo Servicio		
STANDARD RF Norm Group Selection		
00	EU	BG / LL'
01	FR	LL' / BG
02	UK	PAL I only
03	DK	DKK' PAL, SECAM
ROM Default Value : TX 807 C / CS Europe : 00 EU		
KEY	Key lock ON/OFF... Default value : OFF	
OSDCONTR	Factory Setting Full-page video text contrast OSDCONTR = 03H	
WBF-R*	factory Setting Timing of "wide blanking" WBF-R = 88H	
SOC1-0	Specific TDA9554PS (UOC-N2) Peak White Limiting factory Setting SOC1=2FH	
OIF Offset IF demodulator	Specific TDA9554PS (UOC-N2) factory Setting OIF=20H	




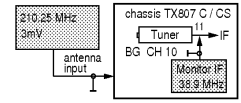
GEOMETRY LINES*		
HS	20	0-3F
VS	◀ 1A	0-3F ▶
VA	20	0-3F
SC	10	0-3F
VSH	20	0-3F
HS		
VS		
V_Slope		
<ul style="list-style-type: none"> Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen. Select the "VS" line of the menu. The bottom half of the screen will go black. Adjust VS until the centre line of the pattern is just invisible. Leave the line "V_Slope". Switch the test pattern signal to the crosshatch geometry pattern. Perform the geometry adjustments described below. 		
<ul style="list-style-type: none"> Appliquer une mire de barres avec seulement une ligne blanche horizontale et verticale en milieu de l'écran. Sélectionner la ligne "V_Slope". La moitié basse de l'écran devient noire. Aligner "V_Slope" pour que la ligne médiane soit à peine non visible. Commencer la mise en mode de réglage de géométrie (quadrillage). Effectuer les réglages de géométrie ci-après. 		
<ul style="list-style-type: none"> Speisen Sie ein Testbild mit einem horizontalen Strich in der Bildmitte ein. Wählen Sie im Menü die Funktion "V-Slope" an. Die untere Bildhälfte wird dunkel. Stellen Sie "V-Slope" so ein, daß die Mittellinie fast verschwindet. Verlassen Sie die Funktion "V-Slope". Speisen Sie ein Gittertestbild ein. Nehmen Sie die Geometrieeinstellungen wie nebenstehend beschrieben vor. 		
<ul style="list-style-type: none"> Applicare un testoscopo con un'unica linea bianca orizzontale al centro dello schermo Selezionare la riga "V slope" del menu. La parte bassa dello schermo viene oscurata. Allineare la "Vertical Slope" in modo che la linea centrale sia appena visibile Abbandonare la riga "V slope". Posizionare il monoscopio Effettuare le regolazioni di geometria descritte in precedenza Memorizzare. 		
<ul style="list-style-type: none"> Aplique una carta de ajuste con sólo una línea blanca horizontal y una vertical en el centro de la pantalla. Seleccionar en el menú, la línea "V-Slope". La mitad inferior de la pantalla se pondrá oscura. Ajuste "V-Slope" justo hasta que la línea horizontal sea invisible. Cambiar la carta de ajuste a "cuadrícula" y efectuar los ajustes de geometría descritos a continuación Antes de salir, memorizar con "Store" 		
VA		
SC		
S-Correction		
VSH		

* According to software version.
** S * : Video signal received is SECAM.
* P * : Video signal received is PAL.

VIDEO LINES																						
CL	◀ 00 0-0F ▶																					
BLORS*	08	0-0F																				
BLOGS*	08	0-0F																				
WPRS*	20	0-3F																				
WPGS*	20	0-3F																				
WPBS*	20	0-3F																				
PWS*	20	20 0-3F																				
BKS*	ON	OFF-ON																				
YD	08	0-0F																				
CL Cathode Level	Factory setting. Extension of the peak White range. Réglage usine. Extension des valeurs de réglages du Peak White. Fabrik-Einstellung (Umfang des Spitzenweiß Einbereiches) Factory Setting. Extension of the peak White range. Ajuste de fábrica. Extensión del margen del Peak White.																					
Cut-off **		 = 50% Grey scale test pattern white =100%  ↑ grey																				
Drive**		 = 50% Grey scale test pattern white =100%  ↑ white																				
WPRS / WPRP White Point Red SECAM/PAL	 = 50% Grey scale test pattern white =100%  ↑ white																					
WPGS / WPGP White Point Green SECAM/PAL																						
WPBS / WPBP White Point Blue SECAM/PAL																						
PWS / PWP**	 = 50%																					
Peak White SECAM/PAL	colourimeter <table><tr><th>Setts</th><th>Nits</th><th>Setts</th><th>Nits</th></tr><tr><td>10"</td><td>500</td><td>21"OT</td><td>420</td></tr><tr><td>14"</td><td>450</td><td>21"MP 90"</td><td>450</td></tr><tr><td>17"</td><td>450</td><td>25"MP 110"</td><td>400</td></tr><tr><td>20"FB</td><td>450</td><td>28"MP 110"</td><td>300</td></tr></table>		Setts	Nits	Setts	Nits	10"	500	21"OT	420	14"	450	21"MP 90"	450	17"	450	25"MP 110"	400	20"FB	450	28"MP 110"	300
Setts	Nits	Setts	Nits																			
10"	500	21"OT	420																			
14"	450	21"MP 90"	450																			
17"	450	25"MP 110"	400																			
20"FB	450	28"MP 110"	300																			
BKS Black Stretch	Factory Setting																					
YD Luminance Delay		Use ◀▶ to adapt the image																				

*Perform the G2 and the Focus settings beforehand.
Effectuez au préalable les réglages de G2 et de focus.
Stellen Sie zuvor G2 und "Focus" ein.
Effettuare le regolazioni G2 e del Fuoco innanzitutto.
Efectuar previamente los ajustes de G2 y Foco

** Adjust separate for PAL / SECAM
* S * : Video signal received is SECAM.
* P * : Video signal received is PAL.

IF LINES		
TOP	◀ 20	0-0F ▶
FFI	00	0-01
ACL*	00	0-01
TOP		
AGC - Take Over		
	<ul style="list-style-type: none">- Minimum noise- Minimum de bruit- Minimum Rauschen - Rumore minimo- Minimo ruido	
		
<ul style="list-style-type: none">- Set TOP to 00- Adjust TOP for maximum gain of IF signal.- Reduce IF level about 8dB.		
ROM Default Value : AGC : 20		
FFI	Fast Filter (IF / PLL)	
Fast Filter IF-PLL	<ul style="list-style-type: none">Filtere rapide (FI / PLL)Schnelles Filter (ZF / PLL)Filtro /rapido (IF / PLL)00 : EuropFactory Setting.	
ACL*	Automatic Colour limiting	
Automatic Colour limiting	<ul style="list-style-type: none">Factory Setting.ACL=00	
VIDEO PROCESSOR LINES		
CD0	84	0-FF
CD1	00	0-0F
SYN0	◀ 30	0-FF ▶
SYN1	08	0-FF
DEF	00	0-0F
V10	00	0-0F
V11	00	0-0F
SOUND	00	0-FF
CONT0	48	0-FF
CONT1	00	0-0F
SOUND1	00	0-FF
FEAT0	00	0-01
FEAT1	00	0-01
LOCK	00	0-01
LIMIT	00	0-01
CD0	<ul style="list-style-type: none">- Colour Decoder 0 = 84- Colour Decoder 1 = 00Hmono sets: CD1 = 80Hstereo sets: CD1 = 00HFactory Setting.	
CD1		
SYN0	<ul style="list-style-type: none">- Synchronisation 0 = 30- Synchronisation 1 = 1CFactory Setting.	
SYN1		
DEF	<ul style="list-style-type: none">- Deflection = 00Factory Setting.	
V10	<ul style="list-style-type: none">- Vision IF 0 = 40- Vision IF 1 = 00Factory Setting.	
V11		
SOUND	<ul style="list-style-type: none">- Sound = 00Factory Setting.	
CONT0	<ul style="list-style-type: none">- Control 0 = 40- Control 1 = 00Factory Setting.	
CONT0		
FEAT0	<ul style="list-style-type: none">- Features 0 = 00Factory Setting.	

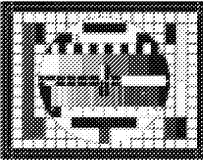




* According to software version.

OSD	DESCRIPTION	DEFAULT VALUE (HEX)
ID	Software	
INIT	Initialise TV set	
STANDARD	RF Norm Group Selection	0 (EU)
KEY	Key Lock	OFF
OSDCONTR	OSD Contrast	03
WBF-R	Timing of wide blanking	88
SOC1-0	Peak White Limiting	08
OIFS	Offset IF demodulator	20
FR	France	00
HS	Horizontal Shift	20
VS	Vertical Slope	1A
VA	Vertical Amplitude	20
SC	S-Correction	10
VSH	Vertical Shift	20
CL	Cathode Level	00
BLORS	Black Level Offset Red SECAM	8
BLORP	Black Level Offset Red PAL	8
BLOGS	Black Level Offset Green SECAM	8
BLOGP	Black Level Offset Green SECAM	8
WPRS	White Point Red SECAM	20
WPRP	White Point Red PAL	20
WPGS	White Point Green SECAM	20
WPGP	White Point Green PAL	20
WPBS	White Point Blue SECAM	20
WPBP	White Point Blue PAL	20
PWS	Peak White SECAM	20
PWP	Peak White PAL	20
BKS	Black Stretch	01
YD	Luminance Delay	08
TOP	AGC Take-Over	20
FFI	Fast Filter IF-PLL	00
ACL	Automatic Colour limiting	00
CD0	Colour Decoder 0	84
CD1	Colour Decoder 1	Mono : 80 Stereo: 00
SYN0	Synchronisation 0	30
SYN1	Synchronisation 1	1C
DEF	Deflection	00
V10	Vision IF 0	40
V11	Vision IF 1	00
SOUND	Sound	00
CONT0	Control 0	40
CONT1	Control 1	00
FEAT0	Features 0	00

GEOMETRY MODE ALIGNMENT

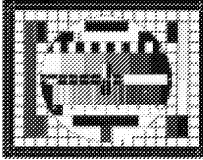







90° tube

Signal : 50 Hz - 4/3 test pattern

<p>4 / 3 standard mode</p>		<p>Overscan V=107% , H=107%</p> <p>1 - Adjust Horizontal Centering (HS)</p>  <p>2 - Adjust Vertical centering (VSH) and Vertical amplitude 107% (VA) 3 - Adjust Vertical Slope (VS) and linearity (SC)</p>    <p>4-If necessary repeat VSH, VA alignment to 7% overscan.</p>
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110° tube

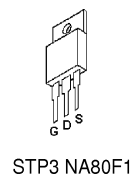
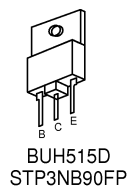
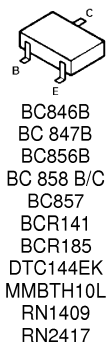
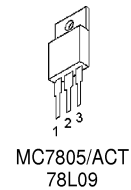
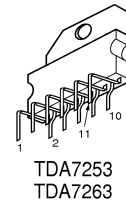
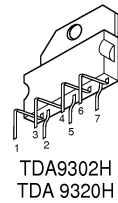
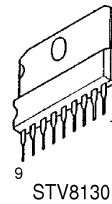
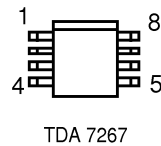
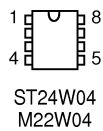
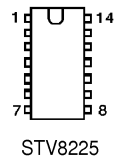
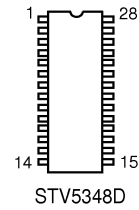
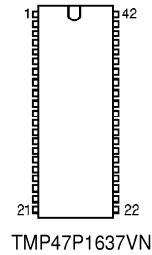
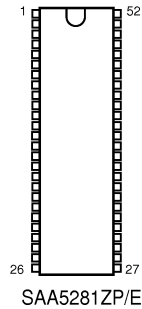
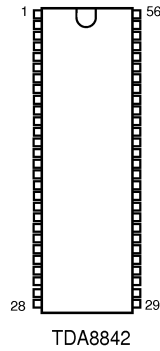
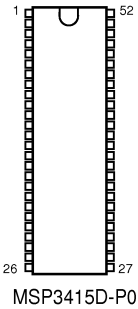
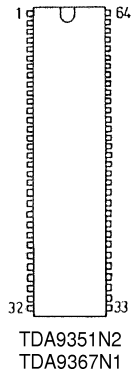
Signal : 50 Hz - 4/3 test pattern

<p>4 / 3 standard mode</p>		<p>Overscan V=107% , H=107%</p> <p>EAST-WEST MODULE</p> <p>1 - PL140 : Turn fully counterclockwise.</p> <p>MAIN BOARD</p> <p>2 - Adjust Horizontal Centering (HS)</p>  <p>3 - Adjust Vertical centering (VSH) and Vertical amplitude 107% (VA) 4 - Adjust Vertical Slope (VS) and linearity (SC)</p>    <p>5 - If necessary repeat VSH, VA alignment to 7% overscan.</p> <p>EAST-WEST MODULE</p> <p>6 - PL140 : Adjust Horizontal amplitude with PL140 for optimum overscan</p>  <p>7 - PL141 : Adjust Pincushion.</p>  <p>8 - PL143 : Adjust Trapezium</p>  <p>9 -If necessary repeat Horizontal amplitude, pincushion correction and trapezium alignment</p>
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LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES

● BCL	BEAM CURRENT LIMITING INFORMATION
● BLACK_I	BLACK CURRENT INPUT
● B / B'	BLUE SIGNAL TO VIDEO AMPLIFIER
● CVBS	COMPOSITE VIDEO BASE BAND SIGNAL
● DEGAUSS	DEGAUSS SIGNAL
● DEG-COIL	DEGAUSS COIL
● FAULT	SIGNAL TO DETECT FAULT CONDITION
● FB	FAST BLANKING
● G / G'	GREEN SIGNAL TO VIDEO AMPLIFIER
● H / HDRV	DRIVE SIGNAL FOR HORIZONTAL DEFLECTION
● HTR / HEATER	HEATER VOLTAGE
● I_CUT	CUT OFF CURRENT
● IR	DATA FROM INFRARED RECEIVER
● MUTE	MUTE AUDIO AMPLIFIER
● OPTO	REGULATION SIGNAL GOING TO OPTO COUPLER ON DC-DC POWER SUPPLY MODULE.
● PO	POWER ON. SIGNAL FROM MICRO. TO POWER SUPPLY. SWITCHES THE POWER SUPPLY FROM STANDBY TO ON.
● R / R'	RED SIGNAL TO VIDEO AMPLIFIER
● SCL	SERIAL CLOCK
● SDA	SERIAL DATA
● SLOW_SW	SLOW SWITCH FROM SCART
● SOUND_SW	IF SELECTION CONTROL INPUT
● UA	POSITIVE AUDIO VOLTAGE
● -UA	AUDIO VOLTAGE GROUND
● USTBY	STANDBY VOLTAGE: 11.9V
● +UB / USYS	SYSTEM VOLTAGE
● USYS_MOD	SIGNAL TO MODULATE USYS
● UVIDEO	VIDEO VOLTAGE FOR THE CRT BOARD
● V_DRIVE	DRIVE SIGNAL FOR VERTICAL DEFLECTION
● +VSUPPLY	12.9V. POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER AMPLIFIER
● -VSUPPLY	10.5 TO 12.5V (DEPENDENT ON TUBE TYPE). NEGATIVE SUPPLY VOLTAGE FOR VERTICAL POWER AMPLIFIER 12.9V.
● VT	TUNING VOLTAGE
● +5VON	SUPPLY VOLTAGE FOR THE MICROPROCESSOR AND AUDIO PART. ONLY PRESENT IN ON MODE.
● +8V	SUPPLY VOLTAGE FOR THE MICROPROCESSOR, AUDIO PART AND FOR THE DRIVER PULL-UP RESISTOR
● +3VUP	PRESENT IN STANDBY MODE. POWER SUPPLY VOLTAGE FOR THE MICROPROCESSOR. POWER SUPPLY INTERNAL USED AS REFERENCE VOLTAGE FOR THE REGULATION
● +33V	TUNER VOLTAGE

INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR CIRCUITOS INTEGRADOS Y TRANSISTORES



EACEM-IRIS REPAIR CODING SYSTEM

CONSTANTLY	1	GENERAL	110	POWER PROBLEM OR NOT OPERATING	120	CHARGING PROBLEM	130	DISPLAY FUNCTION PROBLEM	140	ABNORMAL NOISE
			111	NO POWER	121	NO BATTERY CHARGING	131	FAULTY DISPLAY	141	CRT DISCHARGING NOISE
			112	NO POWER WHEN USING AC-ADAPTER	122	INCOMPLETE BATTERY CHARGE	132	FAULTY LAMP/LED OPERATION	142	EHT DISCHARGING NOISE
			113	NO POWER WHEN USING DRY BATTERIES	123	CHARGING TIME TOO LONG	133	FAULTY LEVEL METER OPERATION	143	NOISY CABINET/CRACKING TRAYS
			114	NO POWER WHEN USING RECHARGEABLE BATTERIES	12X	OTHER 'CHARGING' PROBLEM	134	FAULTY ON-SCREEN DISPLAY OPERATION	144	NOISY TRANSFORMER/HUMMING
			115	NO POWER FROM SOLAR CELL			135	ELECTRONIC TUNING DISPLAY FAULT	145	NOISY COMPONENT(S)
			116	NO POWER WHEN USING A CAR BATTERY			136	MECHANICAL TUNING DISPLAY FAULT	146	RATTLE
			117	SHORT OPERATION TIME/SHORT BATTERY LIFE			137	FAULTY TIME CODE DISPLAY	147	CLICKING
			118	POWER-OFF FUNCTION NOT WORKING			138	FAULTY ALARM/ERROR DISPLAY	148	CLOCK NOISE
			119	NO SWITCH-ON FROM STANDBY			139	DISPLAY DIM/TOO DARK	149	CRACKING
IN A DAMP/WET/ RAINY/SNOWY ENVIRONMENT	11A	POWERS UP, BUT NO OPERATION			13A	UNUSUAL OR INCORRECT MESSAGE IN DISPLAY	14A	WHISTLING		
	11B	CYCLIC POWER ON/OFF					14X	OTHER 'ABNORMAL' NOISE		
IN A DRY ENVIRONMENT	11C	BLOWING EXTERNAL (MAINS) FUSE			13B	NO BACKLIGHT				
	11D	SET SWITCHES OFF BY ITSELF			13C	BEEPS, NO DISPLAY				
	11E	BACKUP BATTERY PROBLEM			13D	WARNING LIGHT DOES NOT WORK				
AFTER BEING DROPPED/ TRANSPORT DAMAGE	11F	NOT OPERATING			13E	WARNING LIGHT LIGHTS UP				
	11G	NO AUTOMATIC SWITCH ON/OFF			13X	OTHER 'DISPLAY FUNCTION' PROBLEM				
AFTER LIGHTNING STRIKE	11H	PROTECTION SWITCH/FUSE IN SET TRIGGERS								
	11J	RECHARGEABLE BATTERY NOT RECOGNIZED								
	11X	OTHER 'POWER' PROBLEM								
ONLY CERTAIN STATIONS/ SOFTWARE/ MODE/ CHANNELS/ FREQUENCY BAND	2	COMMUNICATION	210	NO RECEPTION OR CONNECTION	220	POOR RECEPTION OR CONNECTION	230	TRANSMISSION/CONNECTION PROBLEM	240	NOISY RECEPTION/TRANSMISSION
			211	NO AM RECEPTION	221	POOR AM RECEPTION	231	NO TRANSMISSION/CONNECTION	241	LINE NOISE
			212	NO FM RECEPTION	222	POOR FM RECEPTION	232	POOR TRANSMISSION/CONNECTION	242	OSCILLATION
			213	NO SW RECEPTION	223	POOR SW RECEPTION	233	TRANSMISSION LEVEL TOO HIGH	243	INTERSTATION INTERFERENCE
ONLY ON CERTAIN STANDARDS			214	NO VHF RECEPTION	224	POOR VHF RECEPTION	234	NO TRANSMISSION BETWEEN BASE UNIT AND HANDSET	24X	OTHER 'NOISY RECEPTION/TRANSMISSION' PROBLEM
			215	NO UHF RECEPTION	225	POOR UHF RECEPTION				
			216	NO BS RECEPTION	226	POOR BS RECEPTION	235	POOR TRANSMISSION BETWEEN BASE UNIT AND HANDSET		
ONLY ON ONE CHANNEL			217	NO CS RECEPTION	227	POOR CS RECEPTION	236	NO IR TRANSMISSION		
			218	NO HDTV RECEPTION	228	POOR HDTV RECEPTION	237	ONE-SIDED CONNECTION		
ONLY WITH CERTAIN INPUT(S)			219	NO GPS/QPS RECEPTION	229	POOR GPS/QPS RECEPTION	238	MODEM HANGS UP IMMEDIATELY ONCE CONNECTED		
			21A	NO RECEPTION OF DIGITAL BROADCASTING	22A	POOR RECEPTION OF DIGITAL BROADCASTING	239	MODEM DROPS LINE DURING CONNECTION		
ONLY ON CERTAIN OUTPUT(S)			21B	NO IR RECEPTION	22B	POOR IR RECEPTION	23X	OTHER 'TRANSMISSION/CONNECTION' PROBLEM		
			21C	NO DIAL TONE	22X	OTHER 'POOR RECEPTION' PROBLEM				
ONLY ON CERTAIN MODE			21D	NO MODEM/FAX CONNECTION						
IN STANDBY/OFF MODE			21E	MODEM NOT ANSWERING/NO CARRIER						
			21F	NO NETWORK CONNECTION/NETWORK INITIALIZATION FAILS						
			21X	OTHER 'NO RECEPTION' PROBLEM						
AT EDIT POINT	3	PICTURE	310	NO PICTURE	320	PICTURE LEVEL PROBLEM	330	PICTURE QUALITY PROBLEM	340	PICTURE NOISE
			311	NO PICTURE IN E TO E MODE	321	PICTURE TOO DARK	331	POOR PICTURE RESOLUTION	341	SNOWY PICTURE
WHEN INTERCONNECTED			312	NO PICTURE IN PLAYBACK MODE	322	PICTURE TOO BRIGHT	332	POOR FOCUS	342	DOT NOISE OR DROPOUT ON PICTURE
			313	NO PICTURE IN VIEWFINDER	323	CONTRAST TOO LOW	333	RINGING ON PICTURE	343	NOISE BARS ON PICTURE
LIQUID CONTAMINATION			314	NO PICTURE, ONLY RASTER	324	CONTRAST TOO HIGH	334	EXCESSIVE SMEAR/LAG	344	BLANKING LINES ON PICTURE
			315	NO RASTER, BLACK PICTURE	325	SATURATED WHITE OR BLACK LEVEL	335	POOR LINEARITY OR GEOMETRY	345	BEATING ON PICTURE
FOR A SHORT WHILE AFTER SWITCH-ON			316	ONLY HORIZONTAL LINE	326	SHADING ON PICTURE	336	PICTURE SIZE INCORRECT	346	GHOSTING ON PICTURE
			317	ONLY VERTICAL LINE	327	ONLY PARTIAL PICTURE	337	INCORRECT CENTRING OF PICTURE	347	VCR HEAD SWITCHING NOISE ON PICTURE
			318	NO PICTURE IN LCD	32X	OTHER 'PICTURE LEVEL' PROBLEM	338	PICTURE SLANTED	348	OVERMODULATION NOISE
AFTER MAKING A COPY			319	NO 2nd (OR HIGHER) MONITOR DISPLAY			339	V-SIZE INCORRECT	349	MOIRE
			31X	OTHER 'NO PICTURE' PROBLEM			33A	H-SIZE INCORRECT	34A	MOSAIC NOISE
							33X	OTHER 'PICTURE QUALITY' PROBLEM	34B	SCRAMBLED PICTURE
UNDER STRESSED CONDITIONS / HIGH LOAD									34X	OTHER 'PICTURE NOISE' PROBLEM
AT SWITCH-OFF										
			4	COLOUR	410	NO COLOUR	420	COLOUR LEVEL PROBLEM	430	POOR COLOUR QUALITY
	411	NO COLOUR IN E TO E MODE			421	WEAK COLOUR	431	SOME OR ALL COLOURS MISSING	441	COLOUR NOISE ON A BLACK & WHITE PICTURE
	412	NO COLOUR IN PLAYBACK MODE			422	EXCESSIVE COLOUR	432	POOR WHITE BALANCE	442	COLOUR STREAKING
	413	NO COLOUR IN VIEWFINDER			42X	OTHER 'COLOUR LEVEL' PROBLEM	433	HUE PROBLEM	443	COLOUR BARS ON PICTURE
	414	NO COLOUR IN PART OF PICTURE					434	PURITY ERROR	44X	OTHER 'COLOUR NOISE' PROBLEM
	41X	OTHER 'NO COLOUR' PROBLEM					435	LANDING ERROR/WHITE UNIFORMITY		
							436	CONVERGENCE ERROR		
							437	REGISTRATION ERROR		
							438	PITCH MOIRE/RAINBOW PATTERN		
							439	COLOUR SHIFT		
							43X	OTHER 'COLOUR QUALITY' PROBLEM		
	5	AUDIO	510	NO AUDIO	520	AUDIO LEVEL PROBLEM	530	AUDIO QUALITY	540	NOISY AUDIO
			511	NO SOUND IN E TO E MODE	521	LOW AUDIO LEVEL	531	POOR FREQUENCY RESPONSE	541	HUM
			512	NO PLAYBACK OF OUTGOING MESSAGE(S)	522	EXCESSIVE AUDIO LEVEL	532	DISTORTED AUDIO	542	HISS
			513	NO PLAYBACK OF INCOMING MESSAGE(S)	523	BALANCE PROBLEM	533	NO OR POOR TREBLE	543	CROSSTALK
			514	NO AUDIO PLAYBACK	524	FADER PROBLEM	534	NO OR POOR BASS	544	NOISY TAPE LOADING
			515	NO SOUND FROM HANDSET	525	AUDIO LEVEL REMAINING/NO MUTING	535	EARPHONE/HEADPHONE AUDIO POOR	545	SEAR NOISE
			516	NO SOUND FROM SPEAKER	52X	OTHER 'AUDIO LEVEL' PROBLEM	53X	OTHER 'AUDIO QUALITY' PROBLEM	546	SCRATCHING NOISE
			517	NO SOUND FROM EARPHONE/HEADPHONE					547	IGNITION NOISE
			518	NO MICROPHONE SOUND					548	WHISTLING/MULTIPATH NOISE
			519	NO SOUND FROM DIGITAL OUTPUT					549	DATA/DIGITAL NOISE
			51X	OTHER 'NO AUDIO' PROBLEM					54X	OTHER 'AUDIO NOISE' PROBLEM
	6	MECHANISM	610	NO MECHANICAL OPERATION	620	IRREGULAR MECHANICAL OPERATION	630	SPEED PROBLEM	640	MECHANICAL NOISE
			611	NO ROTATION OF MOTOR/DISC	621	IRREGULAR ROTATION	631	SPEED TOO FAST	641	ROTATION NOISE/DRUM NOISE
			612	NO FORWARD OPERATION	622	IRREGULAR FORWARD MODE	632	SPEED TOO SLOW	642	MOTOR NOISE
			613	NO REVERSE OPERATION	623	IRREGULAR REVERSE OPERATION	633	SPEED UNADJUSTABLE	643	WIND/AIR NOISE
			614	NO FAST FORWARD OR REWIND FUNCTION	624	IRREGULAR FAST FORWARD OR REWIND FUNCTION	63X	OTHER 'SPEED' PROBLEM	644	SQUEALING
			615	NO LOADING	625	IRREGULAR LOADING OF MEDIA			645	FAN NOISE
			616	NO UNLOADING OR EJECTING	626	IRREGULAR UNLOADING OR EJECTING			646	DISC SCRAPING
			617	NO AUTO SHUT-OFF OPERATION	627	IRREGULAR AUTO SHUT-OFF OPERATION			647	NOISY TAPE LOADING
			618	TONERARM DOES NOT MOVE	627	IRREGULAR AUTO SHUT-OFF OPERATION			648	SEAR NOISE
			619	DISC NOT BEING EJECTED	628	IRREGULAR TONERARM MOVEMENT			649	CONTROL OR SWITCH NOISY
			61A	MAGAZINE OR MODULE	629	IRREGULAR EJECTION OF DISC			64A	GRINDING
			61B	LOADING/UNLOADING	62A	IRREGULAR DIRECTION CHANGE			64B	RUMBLING
			61X	CONTROL/SWITCH NOT WORKING	62B	FAULTY DISC CHANGE OPERATION			64C	VIBRATION NOISE
				OTHER 'NO MECHANICAL OPERATION' PROBLEM	62X	OTHER 'IRREGULAR MECHANICAL OPERATION' PROBLEM			64X	OTHER 'MECHANICAL NOISE' PROBLEM
	7	DATA PROCESSING	710	NO DATA PROCESSING OPERATION	720	FAULTY DATA PROCESSING OPERATION	730	DATA DISPLAY PROBLEM	740	KEYBOARD/POINTING DEVICE
			711	NO INITIAL SCREEN	721	INCORRECT DATA	731	INCORRECT CHARACTER DISPLAY	741	MOUSE/TRACKBALL/TRACKPAD NOT WORKING
			712	SYSTEM DOES NOT RESET	722	SYSTEM RESET WHILE BEING USED	732	MISSING DISPLAY CHARACTERS	742	KEYBOARD LOCKS UP
			713	SYSTEM DOES NOT BOOT UP	723	SYSTEM LOCKS OUT/CRASHES/HANGS	733	FAULTY GRAPHIC DISPLAY	743	POINTING DEVICE LOCKS UP
			714	NO OPERATION FROM PLUG-IN MODULE/PERIPHERAL	724	FAULTY OPERATION OF PLUG-IN MODULE	734	FAULTY SWITCHING BETWEEN GRAPHIC/ CHARACTER MODE	744	STICKY KEY(S)
			715	NO KEYBOARD OPERATION	725	FAULTY KEYBOARD OPERATION	735	FAULTY PROMPT/CURSOR OPERATION	745	INOPERATIVE KEY(S)
			716	NO OPERATION FROM OTHER INPUT/OUTPUT DEVICE	726	FAULTY OPERATION OF OTHER INPUT/OUTPUT DEVICE	736	DATA DISPLAY COLOUR INCORRECT	746	POINTING DEVICE NOT TRACKING PROPERLY
			717	NO DATA STORAGE OPERATION	727	FAULTY DATA STORAGE OPERATION	737	NO PAGING OR SCROLL MODE	747	POINTING DEVICE JITTERY
			718	NO DATA COMMUNICATION	728	FAULTY DATA COMMUNICATION	73X	OTHER 'DATA DISPLAY' PROBLEM	748	LEFT- OR RIGHT CLICK BUTTON INOPERATIONAL
			719	ERROR MESSAGE DISPLAY	729	MEMORY ERROR			749	TRACKPAD SURFACE DAMAGED
			71A	HDD BOOT FAILURE	72A	REQUIRES 'SET UP' AT BOOTING			74A	KEYBOARD KEY(S) DAMAGED
			71B	FDD BOOT FAILURE	72X	OTHER 'FAULTY DATA PROCESSING' PROBLEM			74X	OTHER KEYBOARD/POINTING DEVICE PROBLEM
			71X	OTHER 'NO DATA PROCESSING' PROBLEM						
	8	PRINT/COPY/SCAN	810	NO PRINT/COPY/SCAN OPERATION	820	ERRONEOUS PRINT/COPY/SCAN OPERATION	830	POOR PRINT QUALITY	840	NOISY PRINTING
			811	NOT PRINTING	821	PRINT IMAGE REVERSED (NEGATIVE/POSITIVE)	831	INCORRECT PRINTING POSITION	841	PRINTING NOISE LINES
			812	NO COMMUNICATION WITH PRINTER	822	IRREGULAR PAPER FEED	832	LOW PRINT CONTRAST	842	DIRTY PRINTING
			813	PAPER NOT LOADING	823	ERRONEOUS PRINT MODE SWITCHING	833	EXCESSIVE PRINT CONTRAST	843	UNPLEASANT SMELL (OZONE)
			814	NO PAPER FEED	824	COPY TOO DARK	834	BLURRED PRINT IMAGE	844	BLACK LINES/STRIPES IN FEED DIRECTION
			815	NO IMAGE FIXATION	825	COPY TOO BRIGHT	835	PRINT IMAGE NOT SHARP	845	WHITE LINES/STRIPES IN FEED DIRECTION
			816	NO DOCUMENT FEEDING	826	BLACK COPY	836	DOTS MISSING IN PRINT IMAGE	846	BLACK LINES/STRIPES ACROSS FEED DIRECTION
			817	SCANNER NOT WORKING	827	WHITE COPY	837	COLOUR STREAKING		
			81X	OTHER 'NO PRINT/COPY/SCAN OPERATION' PROBLEM	828	POOR COLOUR LEVELS	838	NO COLOUR IN PART OF PICTURE	847	WHITE LINES/STRIPES ACROSS FEED DIRECTION
					829	IRREGULAR DOCUMENT FEED	839	PRINT IMAGE/COPY INCOMPLETE		
					82A	FAULTY CORRECTION FUNCTION	83A	FAULTY CALIBRATION	84X	OTHER 'NOISY PRINTING' PROBLEM
					82B	POOR SCANNING QUALITY	83X	OTHER 'PRINT QUALITY' PROBLEM		
					82X	OTHER 'PRINT/COPY/SCAN OPERATION' PROBLEM				

BROWN GOODS

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SYMPTOM CODE TABLE



5	UNSTABLE	6	RECORDING & PHYSICAL PROBLEMS	7	SPECIAL FUNCTIONS	8	OTHER CONDITIONS
150	REMOTE CONTROL PROBLEM	160	PHYSICAL DAMAGE	170	GENERAL FUNCTION PROBLEM	180	SPECIAL REQUIREMENTS
151	NO REMOTE CONTROL OPERATION	161	DAMAGED/DEFORMED CABINET/PANEL	171	FAULTY CLOCK FUNCTION	181	TEST AND CHECK
152	INCORRECT REMOTE CONTROL OPERATION	162	DAMAGED HANDLE/CLIP	172	FAULTY SLEEP FUNCTION	182	GENERAL OVERHAUL
153	REMOTE CONTROL PROGRAMMING/ LEARNING MODE PROBLEM	163	DAMAGED CONTROL KNOB(S)/BUTTON(S)/KEYPAD	173	FAULTY TIMER PROGRAMMING	183	SYSTEM/FREQUENCY CONVERSION
154	POOR REMOTE CONTROL SENSITIVITY	164	DAMAGED DOOR/COVER	174	FAULTY TIMER OPERATION	184	INITIAL SETUP/INSTALLATION REQUES
15X	OTHER 'REMOTE CONTROL' PROBLEM	165	DAMAGED SEAL	175	PROGRAMMING/USER ADJUSTMENT PROBLEM	185	MODIFICATION/CIRCUIT/INSTALLATION
		166	DAMAGED PLUG/SOCKET/TERMINAL/CONNECTOR	176	FAULTY RECORD MUTE OPERATION		CHANGE
		167	DAMAGED LENS	177	FAULTY PROGRAMMED PLAYBACK OPERATION	186	WRONG PRODUCT IN CARTON
		168	DAMAGED CARTRIDGE OR STYLUS	178	FAULTY MEMORY FUNCTION	187	ACCESSORY MISSING
		169	DAMAGED ANTENNA	179	FAULTY INPUT SWITCHING	188	UNABLE TO CONNECT PARTS-/TO
		16A	DAMAGED CRT OR VIEWFINDER/LCD DISPLAY	17A	FAULTY OUTPUT SWITCHING		ASSEMBLE
		16B	MISSING COMPONENT(S) OR ORNAMENTAL PARTS	17B	ELECTRIC SHOCK/STATIC DISCHARGE	189	WRONG COLOUR
		16C	PRINTED MARKINGS ERASED/PEELED OFF	17C	FAULTY SEARCH FUNCTION (INDEX/VIEW/TITLE/CHAPTER/TRACK...)	18B	BATTERY MOUNTING PROBLEM
		16D	SET BURNING/EMITS SMOKE	17D	WRONG LANGUAGE/CHARACTER SET	18X	OTHER SPECIAL REQUIREMENTS
		16E	EXTERNAL SURFACE DAMAGE (BUBBLING/PEELING/RUSTING/SCRATCHED)	17E	ERROR CODE APPEARS IN DISPLAY	18Z	SYMPTOM NOT AVAILABLE
		16F	SMELL	17F	SWITCH NOT OPERATING		
		16G	WEAK/DAMAGED STAND	17G	PEDAL NOT OPERATING		
		16H	DAMAGED SPEAKER	17H	FAULTY STANDBY MODE		
		16J	SET GETS VERY HOT / PARTS MELTING	17J	FAULTY HIBERNATION MODE		
		16K	FOREIGN SUBSTANCE ON/IN UNIT	17K	NO AUDIBLE WARNING SIGNAL		
		16L	BURNING MARKS	17L	FAULTY OPERATION OF PARENTAL LOCK/KEYLOCK FUNCTION		
		16M	INTERNAL SURFACE DAMAGE (BUBBLING/PEELING/RUSTING/SCRATCHED)	17M	FAULTY MODE SWITCHING		
		16N	DAMAGED POWER CABLE	17N	MENU FUNCTION PROBLEM		
		16P	DAMAGED ACCESSORY	17X	OTHER 'GENERAL FUNCTION' PROBLEM		
		16R	DISCOLOURATION				
		16X	OTHER PHYSICAL DAMAGE				
250	UNSTABLE RECEPTION/TRANSMISSION	260	TUNING PROBLEM	270	SPECIAL COMMUNICATION PROBLEM	280	SPECIAL RECEPTION PROBLEM
251	TUNING DRIFT	261	MANUAL TUNING PROBLEM	271	FAULTY DIALLING	281	FAULTY STEREO RECEPTION
252	FADING	262	AUTOMATIC TUNING PROBLEM	272	FAULTY CHANNEL SELECTION	282	FAULTY MAIN CHANNEL (A) FUNCTION
253	INTERMITTENT LINE/LINE BREAKING OFF	263	INCORRECT TUNING	273	FAULTY AUTO-ANSWER OPERATION	283	FAULTY SUB-CHANNEL (B) FUNCTION
254	NO OR UNSTABLE CONNECTION COMBINED WITH 'WEAK SIGNAL STRENGTH' INDICATION	264	TUNING MEMORY PROBLEM	274	FAULTY MESSAGE READ-OUT FUNCTION	284	FAULTY SSB RECEPTION
25X	OTHER 'UNSTABLE RECEPTION/ TRANSMISSION' PROBLEM	26X	OTHER 'TUNING' PROBLEM	275	FAULTY AUTODIAL/REDIAL MEMORY	285	FAULTY RDS/MP3/PGC/XDS OPERATION
				276	FAULTY SPEECH PROCESSING	286	FAULTY TELETEXT/CLOSE CAPTION/EP RECEPTION
				277	NO RINGING TONE	287	FAULTY SATELLITE/RTTY RECEPTION
				278	LOUD/WEAK RINGING TONE	288	FAULTY FAX OPERATION
				279	MODEM STUCK OFF HOOK	289	MODEM NOT RECOGNIZED BY SYSTEM
				27A	FAX DOES NOT WORK PROPERLY	28A	FAULTY CALL CHARGE DISPLAY
				27B	MODEM CAUSES PROBLEM WITH PHONE	28B	FAULTY HANDS-FREE OPERATION
				27C	NO MODEM DIAL TONE	28C	SET LOCKED
				27X	OTHER 'SPECIAL COMMUNICATION' PROBLEM	28X	OTHER 'SPECIAL RECEPTION' PROBLE
350	UNSTABLE PICTURE	360	POOR PICTURE RECORDING	370	SPECIAL PICTURE FUNCTION PROBLEM	380	PICTURE DISPLAY/PICKUP PROBLI
351	SYNC PROBLEM	361	NO PICTURE RECORDING	371	EDITING PROBLEM	381	BURN MARK ON DISPLAY/PICKUP
352	PICTURE PUMPING	362	NO ERASURE PROTECTION FOR VIDEO	372	FAULTY FADING/WIPER OPERATION	382	SCRATCH ON DISPLAY/PICKUP
353	PICTURE JITTER	363	PREVIOUS VIDEO RECORDING NOT BEING ERASED	373	FAULTY NEGATIVE/POSITION SWITCHING FUNCTION	383	DUST/DIRT ON DISPLAY/PICKUP
354	PICTURE SHAKING (HORIZONTAL OR VERTICAL)	364	UNWANTED ERASURE OF PICTURE	374	FAULTY SUPERIMPOSE/TELOP OPERATION	384	PHOSPHOR/PIXEL MISSING ON DISPLAY/PICKUP
355	FLICKERING PICTURE	365	NO CAMERA RECORDING	375	FAULTY PICTURE IN PICTURE/DIGITAL PICTURE OPERATION	385	BRIGHT POINT(S) IN PHOSPHOR/PIXE
356	FLASHING PICTURE	366	ONLY ONE FIELD PER FRAME BEING RECORDED	376	FAULTY PICTURE TRANSMISSION	386	LINES ACROSS/DOWN IMAGE
357	CYCLIC PICTURE MUTING	367	RECORDS ONLY A FEW PICTURES	377	FAULTY DIGITAL SHUTTER FUNCTION	387	OUT OF SPECS PIXEL DEFAULTS
358	HEAD IMPACT ERROR CAUSING UNSTABLE PICTURE	36X	OTHER 'PICTURE RECORDING' PROBLEM	378	FAULTY GENLOCK FUNCTION	388	BACKGROUND BURN IN
359	VCR SKEW/H-SHIFT ERROR			379	FAULTY FLASH/STROBE FUNCTION	38X	OTHER 'PICTURE DISPLAY/PICKUP' PROBLEM
35A	FROZEN PICTURE			37A	FAULTY DIGITAL PICTURE/ZOOMING FUNCTION		
35B	JUMPING/REPEATING PICTURE			37B	FAULTY AUTO-EDIT FUNCTION		
35X	OTHER 'UNSTABLE PICTURE' PROBLEM			37C	FAULTY PICTURE STABILIZER FUNCTION		
				37D	FAULTY PICTURE CAPTURE FUNCTION		
				37E	FAULTY SUBTITLING FUNCTION		
				37F	FAULTY VARIABLE SPEED PLAYBACK		
				37G	FAULTY VIEW-/MULTI-ANGLE SWITCHING		
				37H	FAULTY ASPECT RATIO SWITCHING		
				37J	THUMBNAIL- OR INDEX PICTURE PROBLEM		
				37K	NO BLANKING SCREEN		
				37X	OTHER 'SPECIAL PICTURE FUNCTION' PROBLEM		
450	UNSTABLE COLOUR	460	POOR COLOUR RECORDING	470	SPECIAL COLOUR FUNCTION PROBLEM	480	
451	COLOUR FLASHING	461	NO COLOUR RECORDING	471	FAULTY AUTOMATIC WHITE BALANCE		
452	HUE CONSTANTLY CHANGING	462	NOISY COLOUR RECORDING	472	FAULTY COLOUR EFFECTS FUNCTION		
453	FLICKERING COLOUR	46X	OTHER 'COLOUR RECORDING' PROBLEM	47X	OTHER 'SPECIAL COLOUR FUNCTION' PROBLEM		
454	COLOUR NOT LOCKED						
45X	OTHER 'UNSTABLE COLOUR' PROBLEM						
550	UNSTABLE AUDIO	560	POOR AUDIO RECORDING	570	POOR SPECIAL AUDIO FUNCTION	580	STEREO/MULTI MODE OPERATION PROBLEM
551	JUMPING OR REPEATING AUDIO	561	AUDIO NOT BEING RECORDED	571	FAULTY FADE OPERATION	581	NO STEREO OPERATION
552	AUDIO PUMPING OR BREATHING	562	NO ERASURE PROTECTION FOR AUDIO	572	FAULTY ECHO OPERATION	582	POOR CHANNEL SEPARATION
553	AUDIO DROPOUTS	563	PREVIOUS AUDIO RECORDING NOT BEING ERASED	573	FAULTY MIXING OPERATION	583	DIFFERENCE IN PHASE BETWEEN CHANNELS
554	CYCLIC AUDIO MUTING	564	UNWANTED ERASURE OF AUDIO	574	FAULTY REPEAT MODE OPERATION	584	PROBLEM WITH SURROUND SOUND A
555	WOW AND FLUTTER	565	MESSAGE NOT BEING RECORDED	575	FAULTY AUDIO PROCESSING	585	PROBLEM WITH PCM AUDIO MODE
556	HOWLING/ACOUSTIC FEEDBACK	566	DISTORTED AUDIO RECORDING	576	FAULTY SYNC RECORDING OPERATION	58X	OTHER 'STEREO/MULTI MODE' PROBL
557	ECHO IN SOUND	56X	OTHER 'AUDIO RECORDING' PROBLEM	577	FAULTY DBB/DOL OPERATION		
55X	OTHER 'UNSTABLE AUDIO' PROBLEM			578	FAULTY NOISE REDUCTION OPERATION		
				579	FAULTY AUDIO DUB FUNCTION		
				57A	FAULTY TITLE PROGRAMMING		
				57B	FAULTY MIC CONTROL		
				57C	FAULTY PITCH CONTROL		
				57X	OTHER 'SPECIAL AUDIO FUNCTION' PROBLEM		
650	MECHANICAL INSTABILITY	660	DAMAGE TO MEDIA	670	MECHANICAL OPERATION PROBLEM	680	LENS PROBLEM
651	UNEVEN FEET	661	TAPE GETS SCRATCHED	671	FAULTY START/STOP OPERATION	681	FOCUS PROBLEM
652	FAULTY HINGE	662	DISC GETS SCRATCHED	672	FAULTY PAUSE OPERATION	682	ZOOM PROBLEM
653	VIBRATING/JUMPING	663	TAPE GETS CHEWED/WRINKLED	673	FAULTY AUTOMATIC PROGRAM SEARCH	683	IRIS PROBLEM
654	PARTS LOOSE	664	TAPE JAMMED OR BROKEN	674	FAULTY CUE/REVIEW MODE	684	MACRO PROBLEM
655	DAMAGED WHEEL(S)	665	TAPE GETS CURLED	675	FAULTY SLOW MOTION OPERATION	68X	OTHER 'LENS' PROBLEM
65X	OTHER 'MECHANICAL INSTABILITY' PROBLEM	666	SLACK TAPE	676	FAULTY HIGH-SPEED SCANNING MODE		
		667	TAPE STICKING	677	FAULTY SPEED COPY FUNCTION		
		66X	OTHER 'SOFTWARE DAMAGE' PROBLEM	678	FAULTY REPEAT OPERATION		
				679	FAULTY RECORD REVIEW MODE		
				67A	FAULTY AMS OPERATION		
				67B	AUTO-REVERSE MALFUNCTION		
				67C	FAULTY END DETECTION		
				67D	FAULTY DISC SIDE (A-B SELECT) SWITCHING		
				67X	OTHER 'MECHANICAL OPERATION' PROBLEM		
750	PERIPHERAL PROBLEM (NON-STORAGE)	760	DATA STORAGE PROBLEM	770	SPECIAL DATA PROCESSING FUNCTION PROBLEM	780	INTERFACE PROBLEM
751	PERIPHERAL DOES NOT INITIALISE	761	FORMATTING PROBLEM	771	FAULTY SELF-DIAGNOSTIC MODE	781	USB INTERFACE PROBLEM
752	COMMUNICATION FAILURE WITH PERIPHERAL	762	DATA ON STORAGE MEDIUM BEING LOST	772	FAULTY WORD PROCESSING FUNCTION	782	PARALLEL INTERFACE PROBLEM
753	INTERNAL PERIPHERALS FAILURE	763	FRAME MEMORY PROBLEM	773	FAULTY GRAPHIC EDIT FUNCTION	783	SCSI INTERFACE PROBLEM
754	EXTERNAL PERIPHERALS FAILURE	764	READ/WRITE ERRORS	774	PROGRAM CANNOT BE INSTALLED	784	SERIAL INTERFACE PROBLEM
755	NETWORK CARD ERROR	765	HARD- OR OPTICAL DRIVE PROBLEM	775	PRE-LOADED PROGRAM CANNOT BE STARTED UP	785	INCOMPATIBLE WITH OTHER SYSTEM:
756	PERIPHERAL FAILS SELF-TEST	766	FLOPPY DRIVE PROBLEM	776	NOT PRE-LOADED PROGRAM CANNOT BE STARTED UP	786	AUDIO/VIDEO INTERFACE PROBLEM
75X	OTHER PERIPHERAL PROBLEM	767	CD/DVD-ROM DRIVE PROBLEM	777	VIRUS ALARM	787	I.LINK/FIREWIRE/IEEE1394 INTERFACE PROBLEM
		768	TAPE PROBLEM	77X	OTHER 'SPECIAL DATA FUNCTION' PROBLEM	78X	OTHER 'INTERFACE' PROBLEM
		769	DRIVE WILL NOT MOUNT/CANNOT ACCESS DRIVE				
		76A	DISCS EXCHANGE PROBLEM				
		76B	READ/WRITE OPERATION VERY SLOW				
		76X	OTHER 'DATA READ/WRITE' PROBLEM				
850	UNSTABLE PRINTER OPERATION	860	RIBBON/PAPER PROBLEMS	870		880	FAULTY FONT/CHARACTER FUNCTI
851	UNSTABLE PAPER LOADING	861	RIBBON BROKEN			881	INCORRECT CHARACTERS OR IMAGE
852	UNSTABLE MULTI-PAPER LOADING	862	RIBBON STUCK/STICKING			882	INCORRECT CHARACTER SIZE
853	INCORRECT LINE-UP OF CHARACTERS	863	RIBBON DERAILED			883	FONT LOADING PROBLEM
85X	OTHER 'UNSTABLE PRINTER OPERATION' PROBLEM	864	PAPER STUCK/STICKING TO MECHANISM			88X	OTHER FAULTY FONT/CHARACTER FUNCTION' PROBLEM
		865	PAPER JAM				
		866	DOCUMENT JAM				
		867	ERRONEOUS 'NO INKT/TONER' MESSAGE				
		86X	OTHER 'RIBBON/PAPER' PROBLEM				

EACEM - SECTION CODES

COMMON	
ANT	ANTENNA SECTION
APR	SIGNAL PROCESSING (ANALOG)
BCH	BATTERY CHARGE
CLK	CLOCK/TIMER SECTION
CPA	COLOUR PROCESSING/ANALOG
CTR	CONTROL PANEL
DPR	SIGNAL PROCESSING (DIGITAL)
ERA	ERASE CIRCUIT
FLX	FLEXIBLE PRINTED CIRCUIT BOARD
HFS	HIGH FREQUENCY SECTION (RF)
IDS	INFORMATION DISPLAY SECTION
IFC	IF-CIRCUIT
ILN	i.LINK (IEEE1394) SECTION
INP	SIGNAL INPUT SECTION
IRD	INFRARED (IrDA) SECTION
MEM	MEMORY CIRCUIT
OUT	SIGNAL OUTPUT SECTION
PRG	PROGRAMMING SECTION
PRT	PROTECTION CIRCUIT
PSU	POWER SUPPLY
PWA	POWER AMP SECTION
REM	REMOTE CONTROL SECTION
RFU	BOOSTER,RF UNIT
SFT	SOFTWARE (TAPE, DISC, ETC.)
SNS	SENSOR UNIT
SVO	SERVO SECTION
SYS	SYSTEM CONTROL SECTION
TUN	TUNING SECTION
TXT	TEXT PROCESSING
SOUND-RELATED	
APA	AUDIO PROCESSING/ANALOG
APD	AUDIO PROCESSING/DIGITAL
CDC	CD CHANGER SECTION
CDS	CD SECTION
MDC	MD CHANGER SECTION
MDS	MINIDISC SECTION
MIC	MICROPHONE SECTION
PUD	PICK-UP DEVICE
SHD	STATIONARY HEAD(S)
SPK	SPEAKER
PICTURE-RELATED	
CAM	CAMERA CIRCUIT
CPD	COLOUR PROCESSING/DIGITAL
CRT	PICTURE TUBE
DFL	DEFLECTION CIRCUIT
DVD	DVD SECTION
FPK	FOCUS PACK
IMG	IMAGE DISPLAY UNIT

PICTURE-RELATED	
LCD	LCD SECTION
LMP	LAMP/FLASH SECTION
VPA	VIDEO PROCESSING/ANALOG
VPD	VIDEO PROCESSING/DIGITAL
VWF	VIEWFINDER
PC-RELATED	
FDD	FLOPPY DISC DRIVE
FMW	FIRMWARE
HDD	HARD DISC DRIVE
ISA	ISA SECTION
JST	JOYSTICK
KBD	KEYBOARD (SEPARATE)
MDM	MODEM SECTION
NIF	NETWORK INTERFACE
PAR	PARALLEL PORT
PCC	PC CARD
PCI	PCI SECTION
SCS	SCSI PORT
SER	SERIAL PORT
USB	USB PORT
MECHANICAL	
ARM	ARM MECHANISM
BZL	BEZEL
CBT	CABINET
CHA	CHASSIS
DDM	DISC DRIVE MECHANISM
EXC	EXTERNAL CONNECTOR
HCM	HEAD CARRIAGE MECHANISM
HOL	CASSETTE HOLDER
INC	INTERNAL CONNECTOR
LDG	LOADING MECHANISM
LMN	LENS MECHANISM
PFM	PAPER FEED MECHANISM
PIN	PINCH ROLLER/LEVER
PRI	PRINT BLOCK
RFM	RIBBON FEED MECHANISM
RHD	ROTARY HEAD(S)
SLD	SLED MECHANISM
SRS	SUPPLY REEL SECTION
STA	STATIC BLOCK
TDM	TAPE DRIVE MECHANISM
THR	THREADING MECHANISM
TNR	TENSION REGULATOR
TPT	TAPE PATH
TRS	TAKE-UP REEL SECTION
WIR	LEAD WIRE
XXX	CABINET/COSMETIC PARTS

EXAMPLE OF USE:

FLAG	SYMPTOM CODE				PART NO.																REF. NO.						SECTION			PCB						DEFECT CODE		REPAIR CODE		QTY
1	1	4	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	R	1	2	3	.	T	D	M	Y	A	2	2	.	C	1	Z	1	.		
.	3	6	4	1	3	4	5	6	7	8	9	X	X	X	X	X	X	X	X	X	1	1	1			

FLAG: INDICATES THE ONE MAJOR SYMPTOM/PART COMBINATION BY '1'

DEFECT CODES

MECHANICAL

A	WORN OUT (OR GENERAL MECHANICAL DEFECT)
A1	MISOPERATING
B	DIRTY, CLOGGED
C	MECHANICALLY MISALIGNED
D	CUT, BROKEN
E	DEFORMED
F	SNAPPED
G	SCRATCHED, DENTED, SHARP EDGES
H	CRACKED, PEELED, CORRODED, MELTED
I	LOOSE/OFF/STRIPPED
J	SHAKY, UNSTABLE
K	LEAKING (MECHANICAL)
L	DRY (NO LUBRICANT)
M	FOREIGN OBJECT

ELECTRICAL

N	DEFECTIVE ELECTRICAL COMPONENT/MODULE
O	BURNT, ARCING, MISSING PIXELS
P	ELECTRICALLY MISALIGNED/WRONG SETTING
Q	SHORT CIRCUIT
R	OPEN CIRCUIT
S	LEAKING (ELECTRICAL)
T	BAD CONTACT, CONNECTION
T1	BAD EARTH CONNECTION
U	OPEN PATTERN
V	CRACKED PRINTED CIRCUIT BOARD
W	COLD OR NO SOLDERING
X	BRIDGED SOLDERING
Y	WRONG COMPONENT/MODULE
Z	MISSING COMPONENT/MODULE
1	SOFTWARE PROBLEM
11	LOSING DATA FROM MEMORY
12	FAULTY PROGRAM SETTING/INSTALLATION
13	SOFTWARE DEFECTIVE OR INCOMPLETE
14	SOFTWARE SETUP PROBLEM
15	NO IDENTIFICATION / AUTHENTICATION OF PRODUCT OR USER
2	EXHAUSTED, LOW EMISSION
3	NO PROBLEM FOUND (SET WITHIN SPEC)
4	NO PROBLEM FOUND - CUSTOMER MISUNDERSTANDING
5	NO PROBLEM FOUND - LOCAL CONDITIONS
51	FAULTY MAINS VOLTAGE
6	UNABLE TO DIAGNOSE FAULT
7	INCORRECTLY WIRED/ASSEMBLED
81	INCORRECT EQUIPMENT CONNECTION
9	CUSTOMER MISUSE
93	UNAUTHORISED MODIFICATION

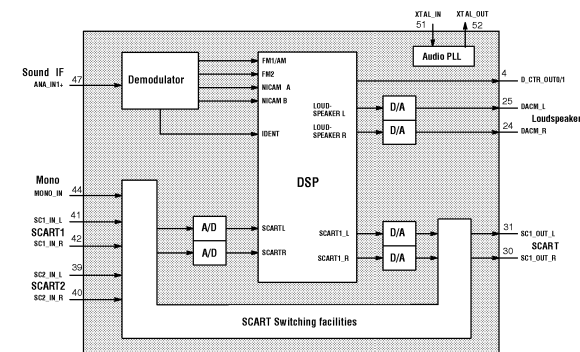
REPAIR CODES

A	REPLACEMENT
B	MECHANICAL ALIGNMENT
C	ELECTRICAL ALIGNMENT
D	RESOLDERING
D1	REFITTING, PUT BACK IN POSITION (CONNECTOR, TUBE...)
E	CLEANING
F	LUBRICATION
G	REPAIRED ELECTRICAL PARTS
H	REPAIRED MECHANICAL PARTS
I	MODIFICATION REQUESTED BY MANUFACTURER
J	REMOVED
K	ADDED
L	FUNCTIONAL CHECK
M	SPECIFICATION MEASUREMENT
N	MAINTENANCE
O	REFURBISHING, RECONDITIONING
P	PREVENTIVE PARTS REPLACEMENT

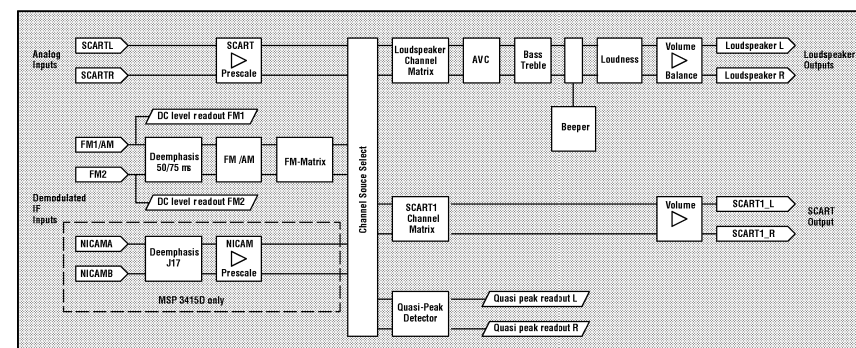
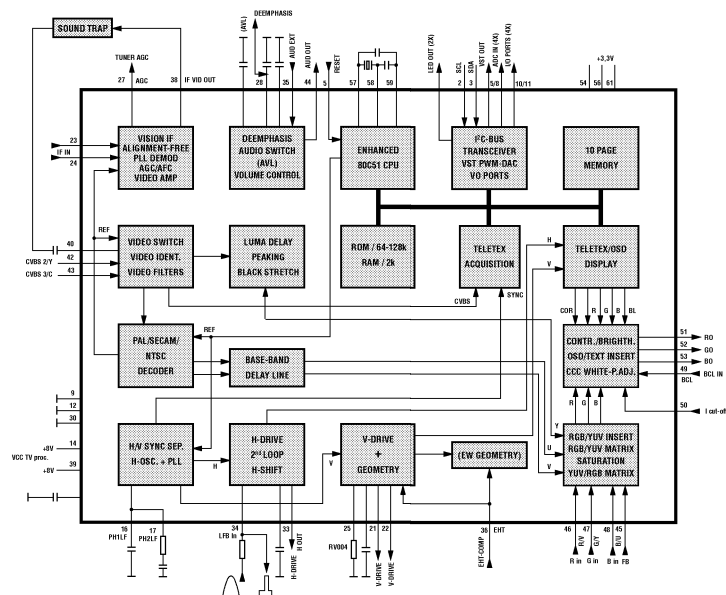
Q	PREVENTIVE ACTION WITHOUT PARTS REPLACEMENT
U	EXPLANATION FOR CUSTOMER
V	COST ESTIMATION REFUSED
W	COST ESTIMATION WITH PARTS
X	COST ESTIMATION WITHOUT PARTS
Y	RETURN WITHOUT REPAIR
Z	PRODUCT EXCHANGE
Z1	PRODUCT EXCHANGE (REPAIR TOO EXPENSIVE)
Z2	PRODUCT EXCHANGE (TOO MANY VISITS/REPAIRS)
Z3	PRODUCT EXCHANGE (PARTS NOT AVAILABLE)
Z4	PRODUCT EXCHANGE (IMPOSSIBLE TO REPAIR)
Z5	PRODUCT EXCHANGE (ON REQUEST OF RETAILER)
Z6	PRODUCT EXCHANGE (ON REQUEST OF MANUFACTURER)
1	SOFTWARE CORRECTION/RESET
2	SOFTWARE UPGRADE
3	PRODUCT UPGRADE (ON REQUEST)

TX807 C/CS
First issue 03 / 00

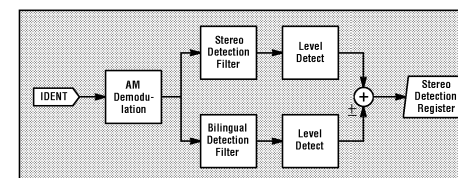
MSP 3415D



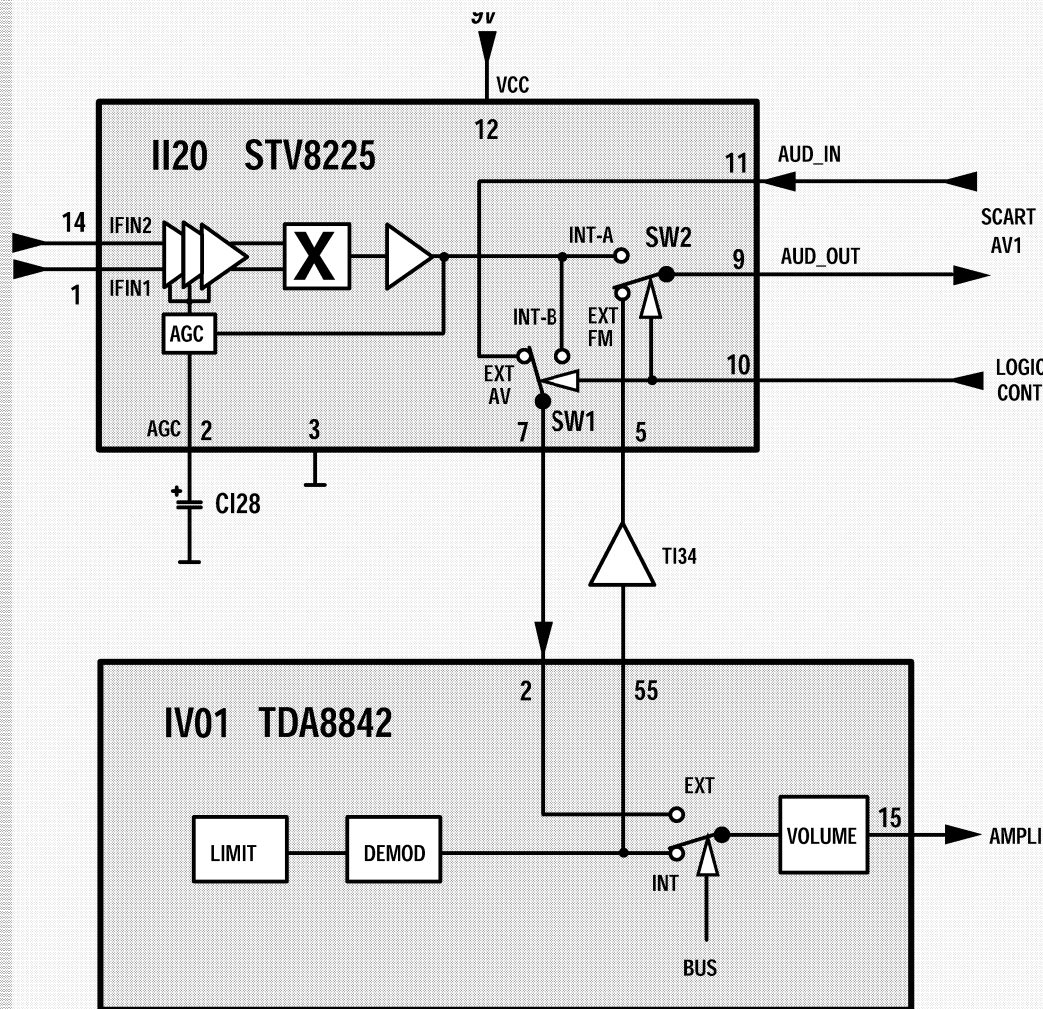
TDA9367N1 MICROPROCESSOR



DETECTION PART OF THE MSP3415D



LOGIC CONTROL II20 - IV01



	Logic Control PIN 10 / II20	IV01	II20
BG	0V	INT	SW2 : EXT-FM
LL'	3V	EXT	SW1 : INT- B SW2 : INT- A
LL' AV	5V	EXT	SW1 : EXT-AV SW2 : INT- A
BG AV	7.5V	EXT	SW1 : EXT-AV SW2 : EXT-FM

POWER SUPPLY CHECKS



Use an isolation transformer when repairing a defective set.

No voltage

+300V voltage absent on CP08. Carry out the following tests :

- Mains supply voltage present ?

If correct:

- Check FP01 and RP01
 - If FP01 is open circuit : check degaussing RP02
 - If FP01 or RP01 are open circuit : check TP20
 - If TP20 is short circuit check : replace TP20, TP22 and TP23

TP20 does not switch

Correct voltage present on CP08 but TP20 is not switching.

Carry out the following tests :

- Voltage the gate of TP20 :
 - No voltage or $< 2V$?
 - check TP20 and RP20.
 - If TP20 or RP20 is open circuit : replace TP22 and TP23 ,RP20,TP20.
- Check DP27, DP21, TP25, DP25, RP21, RP90
- Check TP22 and TP23.

System UB voltage too low

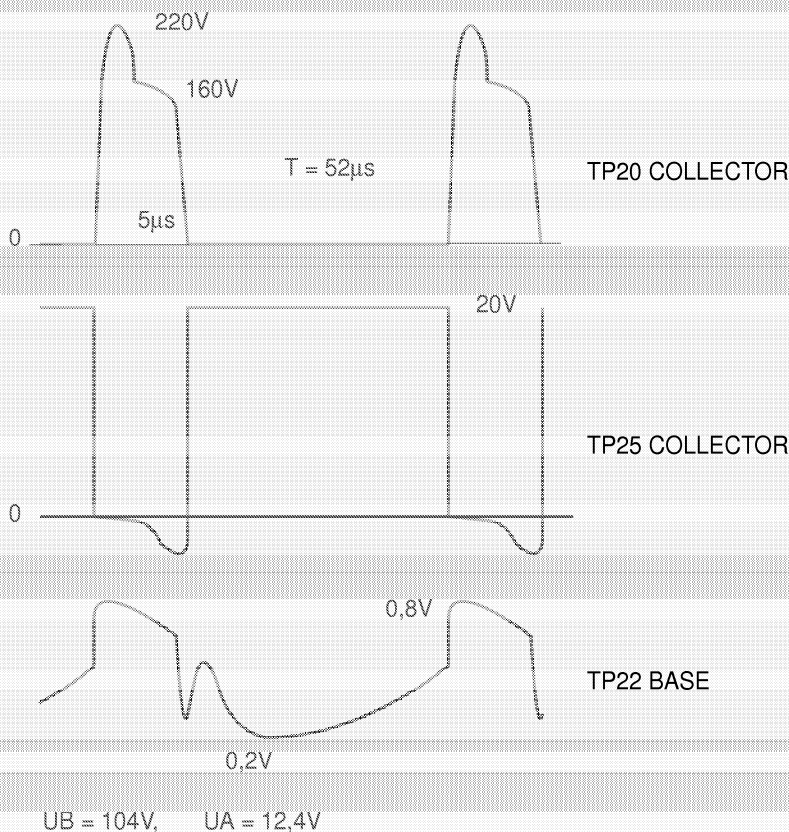
If the operating conditions described below (+300V/CP08, TP020 switching) are correct:

- Check IP01, IP50 and TP52.

POWER SUPPLY FAULT FINDING GUIDE

POWER SUPPLY CHECKS, LOW VOLTAGE METHOD

- Carefully discharge capacitor CP08
- Shunt resistors RP05 to RP07 using a 10-K resistor.
- Connect point 9 of LP03 to the junction point of RP05/CP06.
- Earth the base of TP52 (to prevent instability).
- Earth the base of TR08 (JR24) (forcing standby to prevent instability).
- Connect a 12V DC supply to pin 9 of LP03.



POWER SUPPLY CHECKS USING A LOAD RESISTOR

- Disconnect pin 1 from LL05.
- Earth the base of TP52 (to prevent instability at switch "ON").
- Connect the mains supply voltage .
Collector TP20 : 580Vpp, T=20µs.
UB = 104V
- Load the UB supply rail with 220V / 75W bulb.
Collector TP20 : 580Vpp, T=10µs.
UB= 104V.

A DIFFERENCES BETWEEN EUROPE AND ASIA

POSITION	EUROPE	ASIA
RI48	220R	180R
RI49	180R	180R
CP08	100uF/400	220uF/450V
CP09	1N5F	2N2
DP01	RS20SL-L105	RS25S-K105
DP82	DELETE	ADD
JP02	AD	DELETE
LP02	OREGA 12MH	PANASONIC
LP03	OREGA SMT17	FRONTIER SERV-3513
RP01	5F1/5W	2H7
RP01B	DELETE	POS 5R0
RP02	DELETE	DELETE
RP02A	DELETE	ADD 5R0
RP03	DELETE	5R
RP05/06/7	270K/0.25W	120K/0.25W
RP41	22K	18K
TP20	STP5NAB0F1	STP5NAB0F1
EP01	DELETE	EAZY100/471
DP04	1N4148	DELETE
IB01(TX1)	VT01	VT02
IB01(WO TX1)	VN01	VN02
LR03	0R	0R
LR04	0R	0R
RR16	220R	3K6
RR17	1K	3K6
RR18	1K	3K6
RR19	1K	3K6
RR20	DELETE	680R0
RR24	ADD	DELETE
RR50	1K	0R
RR80	DELETE	ADD
RR81	ADD	DELETE
CV24	ADD	DELETE
CV25	ADD	DELETE
CV26	ADD	DELETE
CV40	DELETE	ADD
JV58	DELETE	ADD
JV59	DELETE	ADD
RA03	ADD	15K
RV16	ADD	DELETE
RV17	ADD	DELETE
RV18	ADD	DELETE
RV19	ADD	DELETE
RV20	ADD	DELETE
RV21	ADD	DELETE
RV22	ADD	DELETE
RV23	ADD	DELETE
RV34	ADD	DELETE
RV35	28R	ADD
RV36	ADD	DELETE
RV42	DELETE	ADD
RV44	0R	15R
TV01	ADD	DELETE
TV02	ADD	DELETE
TV03	ADD	DELETE
TV04	ADD	DELETE
TV05	ADD	DELETE
TV06	ADD	DELETE
TV07	ADD	DELETE
TV08	ADD	DELETE
DX04	DELETE	ADD
RX01	390R	4K7
RX02	390R	4K7
RX03	390R	4K7
RX04	220R	3K3
RX11	6K2	6K2
RX02	ADD	DELETE
BE01	SCART	CINCH

B DIFFERENCES BETWEEN 14" AND 20"/21" (CRT BOARDS, POWER)

POSITION	14"	20"/21"
CT15161/71	820P	270P/330P
CT15262/72	880P	DELETE
DT15161/71	150R	1N4148
DT15262/72	1N4148	DELETE
DT15363/73	JUMPER	BAT85
RT15161/71	10K	12K
RT15565/75	DELETE	1K
RT15666/76	220R	150R
RT15969/79	47R	47R
TT15161/71	DELETE	BT402
CP50	1N550V	2N2/50V
CP90	1000uF/16V	1000uF/25V
DP27	24V	27V
DP40	24V	27V
DP82	DELETE	BYW76
LP90	JUMPER	DELETE
LP91	DELETE	JUMPER
RP29	15K	22K
RP37	18K	33K
RP33	10K	10K
RP90	0.22/0.25W	0.22/0.35W
SP01	DELETE	DELETE

C DIFFERENCES BETWEEN MINI NECK AND NARROW NECK PICTURE

POSITION	MINI	NARROW
JT81	ADD	DELETE
JT82	DELETE	ADD
JT83	DELETE	ADD
JT84	ADD	DELETE

D PICTURE TYPE MATCHING

CRT	14" CHUNG HWA	14" POLCOLOR	14" THAI CRT	14" ORION	20" CHUNG HWA	20" VIDEOCOLOR	21" CHUNG HWA	21" VIDEOCOLOR
HP09K	1.37	1.5	1.5	1.37	1.82	1.58	1.82	1.58
HP17K	1.37	1.5	1.5	1.37	1.82	1.58	1.82	1.58
CL10pF	680	560	560	680	620	680	680	680
RL14H	1.011W	0.4711W	1.011W	1.011W	0.4711W	0.4711W	0.4711W	0.4711W
LL05	20820700	20820700	20820700	20820700	20820700	20820700	20820700	20820700
LL05	20840550	20840550	20840550	20840550	20835940	20835940	20835940	20835940
CL04nF	6.5	6.5	6.5	6.5	8.2	8.2	8.2	8.2
CL05nF	390	470	470	390	390	390	390	390
CL08nF	-----	-----	-----	-----	-----	-----	-----	-----
CL330F	-----	-----	-----	-----	-----	-----	-----	-----
DL08	-----	-----	-----	-----	-----	-----	-----	-----
FL01	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER
RL00H	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE	DELETE
RL08H	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER	JUMPER
RL03K	-----	-----	-----	-----	-----	-----	-----	-----
RL07R	391W	391W	391W	391W	391W	391W	391W	391W
RL12R	S2000N	S2000N	S2000N	S2000N	S2000N	S2000N	S2000N	S2000N
RL07H	221W	221W	221W	221W	151W	151W	151W	151W
RL02	BUH515TH	BUH515TH	BUH515TH	BUH515TH	BUH515TH	BUH515TH	BUH515TH	BUH515TH
RL08K	-----	-----	-----	-----	-----	-----	-----	-----
RL08K	3.9	3.9	3.9	3.9	5.6	5.6	5.6	5.6
RL10K	15.0	15.0	15.0	15.0	13.0	13.0	13.0	13.0
RL12R	0.68	0.22	0.68	0.68	0.22	0.22	0.22	0.22
RL20H	15.5W	15.5W	15.5W	15.5W	47.35W	47.35W	47.35W	47.35W
RL41K	22	22.0	22.0	22.0	18.0	18.0	18.0	18.0
RL62K	82.5	82.5	82.5	82.5	41.2	41.2	41.2	41.2
RP54K	2.0	2.0	2.0	2.0	1.82	1.82	1.82	1.82
UBV	105.5	105.5	105.5	105.5	115.5	115.5	115.5	115.5
PH07	360	360	360	360	4K7	4K7	4K7	4K7
DT5262/72	RCF TK2	HA2K2	TBC	TBC	TK2	TK2	TK2	TK2
RT15767/77	1N4148	BAV21	TBC	TBC	-	-	-	-

F DIFFERENCES FOR 5W ASIA/EUROPE ACOUSTIC REQUIREMENTS

POSITION	EUROPE	ASIA
CA03	22nF	39nF
RA03	15K	7K5
RA04	56K	7K5
RA05	2K7	JUMPER

G DIFFERENCES FOR JA01 OPTIONS

POSITION	
JA01	WITH HEADPHONE (BE02), JA01 DELETED.
	WITHOUT HEADPHONE (BE02), JA01 ADDED.

H DIFFERENCES FOR SCART AND CINCH CONNECTORS

POSITION	SCART WITH I120	SCART WITHOUT I120	CINCH WITHOUT I120
RI02	7K5	10K	5K6
RI03	7K5	10K	5K6
RI72	510R	18K	27K
RI73	560R	4K7	2K
CA21	330pF	470pF	470pF
CI01	270pF	270pF	270pF
CI02	270pF	270pF	270pF

I FOR MACROVISION

POSITION	OTHERS	LL SETS	REMARK
CI42	MPC47nF	5mm JUMPER	SOLDERED ON COPPER SIDE
CI38	10mm JUMPER	CO 47nF	
CV31	CC47nF	DELETE	

* REFER TO PART LIST

E DIFFERENCES AMONG AUDIO OUTPUT POWER REQUIREMENT

POSITION	12W (14" EUROPE)	3W (14" ASIA)	5W (20"/21" ASIA EU)
CA03	15nF	22nF	22nF
CA04	15nF	10nF	22nF
CA06	DELETE	100nF	100nF
CA09	DELETE	4n7F	4n7F
IA21	DELETE	TD47253	TD47253
IA22	DELETE	TD47257	DELETE
JA06	DELETE	JUMPER	JUMPER
JA07	DELETE	JUMPER	JUMPER
JA08	DELETE	JUMPER	JUMPER
LA01	LP03-Cincho SMT use470H LP03-TDK SMT USE 22uH		JUMPER
RA03	12K	12K	15K
RA04	6R8	33K	5K6
RA05	2K7	180R	2K7
RA06	4K7	DELETE	DELETE
RA13	DELETE	4R7	4R7
RA25	DELETE	1K2	1K2
RA26	DELETE	47R	47R
RA22	3K3	2K4	2K4
RA31	1R5	22R	22R
CA24	DELETE	ADD	ADD

* REFER TO PART LIST

J DIFFERENCES BETWEEN BGHILL' - BGDKK' - BG AND I

POSITION	BGHILL'(VST)	BGDKK	BG	I	BGHILL'(VST)
CI21	1N1	-	-	-	100uF
CI23	10nF	-	-	-	22nF
CI24	22nF	-	-	-	22nF
CI27	22uF	-	-	-	22uF
CI28	10uF	-	-	-	10uF
CI27	22nF	22nF	-	-	22nF
CI38	22nF	22nF	-	-	22nF
CI39	1N1	1N1	-	-	1N1
CI40	-	-	-	-	-
CI50	1P5F	-	-	-	1P5F
CI80	4N7F	4N7F	-	-	4N7F
CI81	2P7F	2P7F	-	-	2P7F
CI82	9P8F	9P8F	-	-	9P8F
CI83	22P7	22P7	-	-	22P7
CI84	47P7	47P7	-	-	47P7
DI20	BA282	-	-	-	BA282
DI21	BA282	-	-	-	BA282
DI31	BA282	BA282	0R	-	BA282
DI32	BA282	BA282	-	0R	BA282
DI33	1N4148	-	-	-	1N4148
DI34	0R	-	-	-	0R
DI80	BA282	BA282	-	-	BA282
IP20	STV8225	-	-	-	STV8225
JI21	-	0R	0R	0R	-
JI22	-	220R	220R	220R	-
JI23	-	-	-	-	-
JI24	-	0R	0R	0R	-
JI25	0R	-	-	-	0R
JI26	0R	-	-	-	0R
JI27	0R	0R	0R	0R	0R
JI28	0R	-	-	-	0R
LI30	LA 7X7 77 8MHz 135NH	LA 7X7 77 6MHz 150NH	LA7X7 77 8MHz 150NH	LA7X7 77 8MHz 150NH	LA7X7 77 8MHz 135NH
LI32	LF 4U7H	LF 3U6H	LF 4U7H	LF 4U7H	LF 3U6H
LI31	LA 7X7 32 4MHz	LA 7X7 29 65MHz	-	-	LA7X7 32 4MHz
CI20	FILSW15456M	-	-	-	FILSW15456M
CI30	FILSW1952M	FILSW2967M	FILSW1952M	FILSW1952M	FILSW1952M
CI31	FILC 5M5Hz	FILC 5M5Hz	FILC 5M5Hz	FILC 5M5Hz	FILC 5M5Hz
CI32	FILC 6M0Hz	FILC 6M0Hz	FILC 6M0Hz	FILC 6M0Hz	FILC 6M0Hz
CI33	FILCTRP 5M74Hz	FILCTRP 5M74Hz	FILCTRP 5M74Hz	FILCTRP 5M74Hz	FILCTRP 5M74Hz
CI34	FILCTRP 6M0Hz	FILCTRP 6M0Hz	-	FILCTRP 6M0Hz	FILCTRP 6M0Hz
RI11	180R	68R	68R	88R	180R
RI13	4K7	8K2	8K2	8K2	4K7
RI17	22R	39R	47R	47R	10R
RI20	2K2	-	-	-	2K2
RI21	6K8	-	-	-	6K8
RI22	10K	-	-	-	10K
RI23	10K	-	-	-	10K
RI24	100R	-	-	-	100R
RI38	1K8	-	-	-	1K8
RI39	1K8	-	-	-	1K8
RI40	-	-	-	-	-
RI41	4K7	4K7	-	-	4K7
RI45	120R	120R	120R	120R	100R
RI56	12K	0R	0R	0R	12K
RI57	-	47R	47R	47R	-
RI58	1K	1K	1K	1K	-
RI60	3K9	3K9	-	-	3K9
RI61	2K7	2K7	-	-	2K7
RI62	2K7	2K7	-	-	2K7
RI63	2K7	22K	-	-	2K7
RI64	150K	150K	-	-	150K
LI20	DTC144EK	-	-	-	DTC144EK
LI21	DTC144EK	-	-	-	DTC144EK
LI22	DTC144EK	DTC144EK	-	-	DTC144EK
LI23	DTC144EK	DTC144EK	-	-	DTC144EK
LI25	BC548B	BC548B	BC548B	BC548B	BC548B
LI60	BC848B	BC848B	-	-	BC848B
CI15	101F	-	-	-	101F
CI17	100PF	100PF	-	-	100PF
CI27	220PF	-	-	-	220PF
CI38	1N1	-	-	-	1N1
JI11	0R	-	-	-	0R
JI13	0R	-	-	-	0R
LI11	0R	0R	-	-	0R
RI28	1K5	-	-	-	1K5
RI29	3K9	-	-	-	3K9
RI44	1K	1K	-	-	1K
RI51	10K	-	-	-	10K
RI66	100R	100R	-	-	100R
TR06	BC848B	-	-	-	BC848B

* REFER TO PART LIST


WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*


Do not disconnect modules when they are enregized! Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu'ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement. Module nicht bei eingeschaltetem Gerät entfernen ! Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.


Non scollegare i moduli quando sono alimentati! Intraprendere riparazioni sulla sezione alimentatore solo con trasformatore isolante.


No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

 Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ) gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

Note : During measurements in the power supply unit, use the primary power unit ground (Emit. TP060).

Attention : Mesures dans le bloc alimentation. Utiliser la masse du bloc alimentation (Emit. TP060).

Achtung : Bei Messungen im Primärnetzteil. Primärnetzteilmasse verwenden (Emit. TP060).

Attentionze : Misure nell'alimentatore primario. Usare massa alimentazione primario (Emit. TP060).

Cuidado : Medida en el bloque de alimentación. Utilizar la masa del bloque de alimentación (Emit. TP060).

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER :

Bar test pattern : PAL, I standard, 100% white.

- On UHF, input level 1 mV
- Via the scart socket, input level 1 Vpp

Colour, contrast and brightness at mid-position, sound at minimum.

Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RECEPTEUR :

Mire de barres : SECAM, Norm L, Blanc 100%.

- En UHF, niveau d'entrée 1 mV
- Par la prise Péritélévision, niveau d'entrée 1Vcc.

Couleur, contraste, lumière à mi-course, son minimum.

Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER :

Farbbalken : PAL, Norm G, Weiss 100%

- Bei UHF Eingangspegel 1 mV.
- Über die Scartbuchse : Eingangspegel 1 Vss.

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.

Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE :

Monoscopio per barre : PAL, norma G. bianco 100%.

- In UHF, livello d'entrata 1 mV,
- Per la presa SCART, livello d'entrata 1 Vcc.

Colore, Contrasto, Luce a metà corsa, Suono minimo.

Programma designato PR 01.

Tensioni continue rilevate rispetto alla massa con un voltmetro numerico.

RECEPTOR :

Mira de barras : PAL, norma G, blanco 100%.

- En UHF, nivel de entrada 1 mV,
- Por la toma Peritelevision, nivel de entrada 1 Vpp.

Color, Contraste, luz a mitad de carrera, Sonido minimo.

Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltmetro digital.

PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTOFERGUSON
M5115UT
Chassis TX807

MODULES

MAIN T807V26C705030



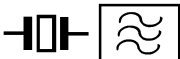
FL01	RXE017	△ 10529690
IA21	TDA7253	20203120
IF01	TDA9302H	20819860
II01	KIA78L09BP	20835320
IP50	TL431	15069010
IR01	TMP47C1637N TX807-VT11	20925200
IR02	ST24W04	20659470
IV01	TDA8842	20751980
IX01	STV5348D	20765620



IP01	TLP621 GR(D4-LF2 T)	△ 20827900
TA21, TI35, TR01, TX02	BC548B	16000930
TA22	BC557B	16001060
TA23, TL01	BC337-40	45001466
TH01, TP22, 52, TR05, 08	BC547B	16000890
TH02, 03, 04	BC857C SMD	50854389
TI11	MMBTH10L SMD	16006500
TI31, 33, 34, TR04, 09, TV01, 02, 04, 06	BC847B SMD	11070770
TL02	S2000N/BU508A	20578720
TL03, TT81	BC327-40	16000450
TL50	2SC2236Y	16000220
TP20	STP3NA80FI	△ 20818740
TP23	BC327-25	16000440
TP25, TX01, 03	BC558B	16001110
TR02	BCR185 SMD	16006900
TR03	BC848C SMD	20438166
TR07	2SA1020Y	16003740
TR10	BC547C	16000900
TT51, 61, 71	BF422	16003090
TT52, 62, 72	2SC2482N	16003760
TT53, 63, 73	BF423	16003110
TV03, 05, 07	RN2410	20824180
TV08	RN1409 SMD	20688820



DA01, DK05, DL60, 63, DP37, 38, DR03, 04, DT51, 61, 71, DV01, 04, 05, 06, 09, 10, 11, DX01, 02, 03	1N4148	44009209
DA02, DT82	BZX55B9V1	70438220
DF01, DL05, 06, 15, 20, 45, 47, 50, DP25, 90	RGPI0G	10459090
DH01	ZTK33A	20494820
DK01	MV5491A LED	10036730
DK04	BZX55C5V6/ZPD5V6	44025401
DL01	1N4001	16008160
DL04	BY228	10406470
DL21, DP26	BAV21	44044407
DL25, DP27, 40	BZX55C27	60447870
DL51	1N5233B	20264850
DL62	ZPD4, 7/BZX55C4V7	20475400
DP01	RS205L-K105	20807220
DP21	BZX55B15/ZPD15 2%	80444020
DP23, 30	ZPD8, 2	44021504
DP57	BZX55C6V8	50890650
DP80	BYW76	16009120
DR02	BZX55B5V1/ZPD5V1 2%	44035702
DV03	MUR115/BYW100-150	44073604
DX05	BZX55C3V3	30948790



QC01	4M433619HZ	10087710
QC02	3M579545HZ	10087720
QI30	OFWJ1952M FOS	20232080
QI32	6M0HZ	48039700
QI34	6M0HZ	48042300
QR01	6M0HZ	20767900
QX01	13M875HZ	10253990



LI30	77M8HZ	20862330
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RA13	4R7 OHM 5% 0,25W	△ 35032200
RL12, 16, RP90	0R22 OHM 5% 0,50W	△ 10305450
RL14	0R47 OHM 5% 1W	△ 15042720
RL20	47R0 OHM 5% 0,30W	△ 13000690
RL45	0R1 OHM 10% 0,40W	△ 15022510
RL51	1R8 OHM 5% 0,30W	△ 15009780
RP01	5R1 OHM 10% 2,5W	10547070
RP02	18R0 OHM 230V PTC	△ 10509980
RP15	10M0 OHM 5% 0,70W	△ 10074320
RP20	1R0 OHM 5% 2,50W	10383240
RP56, 58	41K2 OHM 1% 0,25W	50883790
RR04	8R2 OHM 5% 0,25W	△ 15010150
RR72	200R0 OHM 1% 0,25W	80437540
RT55, 58, 65, 68, 75, 78	1K0 OHM 5% 0,30W	△ 15009700
RT92	1K5 OHM 5% 0,50W	10121880



CL04	6N6F 1K6V	80304700
CL05	390N0F 10% 250V	43171400
CL10	680P0F 10% 3K0V	20248410
CL16, 40, 50	330P0F 10% 1K0V	14030320
CL20	22U0F 20% 250V	△ 13071070
CL33	1N0F 20% 1K0V	20388780
CP01, 02	100N0F 20% 275V	△ 10331520
CP04	10N0F 20% 400V	14033040
CP05, 06	4N7F 1K0V	10058740
CP08	100U0F 385V	30662900
CP09	1N5F 10% 1K0V	20338740
CP15	1N0F 20% 400V	△ 20822690
CP82	680P0F 10% 1K0V	20505600
CP91	2N2F 10% 250V	△ 20833060
CT90	2N2F 2K0V	14036020



LL01	DRIVER	20814520
LL03		△ 80367500
LL05	DSTLH27	△ 20835940
LP02		△ 10395160
LP03	SMT17	△ 10528770

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESSADO

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**OTHER PARTS
AUTRES PIECES
SONSTIGE TEILE
ALTRE PARTI
OTRAS PIEZAS**

BE01	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONNECTOR	10362830
BE02	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	20345310
BE03	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	11007219
BE04	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	30909940
BT02	CATHODE RAY TUBE SOCKET Δ SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	20631370
FP01	1A6T TIME-LAG FUSE Δ 1A6T FUSIBLE TEMPORISE 1A6T SICHERUNG 1A6T FUSIBILE TEMPORIZZATO 1A6T FUSIBLE TEMPORIZADO	48064700
NH01	CTT5045 UHF/VHF TUNER R CTT5045 TETE UHF/VHF CTT5045 UHF/VHF TUNER CTT5045 TUNER UHF/VHF CTT5045 SINTONIZADOR UHF/VHF	20765490
SK01,02,03,04	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	30011100
SP05	ON/OFF SWITCH Δ CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTACTTORE ACCESO/SPENTO CONTACTOR MARCHA/PARADA	20612390

**EQUIPMENT/PRESENTATION
EQUIPEMENT/PRESENTATION
AUSSTATTUNG/GEHAEUSE
PARTI VARIE
EQUIPO/PRESENTACION**

FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL	25314870
LOGO FERGUSON LOGO FERGUSON SCHRIFTZUG FERGUSON MARCHIO FERGUSON LOGOTIPO FERGUSON	25295050
8R OHM 8W LOUDSPEAKER 50X90 8R OHM 8W HAUT PARLEUR 50X90 8R OHM 8W LAUTSPRECHER 50X90 8R OHM 8W ALTOPARLANTE 50X90 8R OHM 8W ALTAVOZ 50X90	10377680
REAR PANEL Δ DOS RUECKWAND PANNELLO POSTERIORE TAPA POSTERIOR	25310900
POWER SUPPLY LEAD (UK) Δ CORDON D'ALIMENTATION (UK) NETZKABEL (UK) CAVO DI ALIMENTAZIONE (UK) CABLE DE ALIMENTACION (UK)	20492600
ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN-AUS TASTE TASTO ACCESSO/SPENTO TECLA MARCHA/PARADA	25314630
BUTTON STRIP BARRETTE DE TOUCHES TASTENLEISTE PIATTINA TASTI PLACA DE TECLAS	25317290
A48EAX13X01 CATHODE RAY Δ A48EAX13X01 TUBE CATHODIQUE A48EAX13X01 FARBBILDROEHRE A48EAX13X01 TUBO CATODICO A48EAX13X01 T.R.C	10543360
DEGAUSSING COIL Δ BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETIZZAZIONE BOBINA DE DESMANTACION	47320196
F3092 REMOTE CONTROL F3092 TELECOMMANDE F3092 FERNBEDIENUNG F3092 TELECOMANDO F3092 TELEMANDO	20647490
FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON	25329710
FITTING UPPER CALE SUPERIEURE POLSTER OBEN Distanziatore superiore CALZO SUPERIOR	25312360
FITTING DOWNER CALE INFERIEURE POLSTER UNTEN Distanziatore inferiore CALZO INFERIOR	25312390

**INSTRUCTIONS
NOTICES
ANLEITUNGEN
ISTRUZIONI
MANUALE**

M5115UT PARTS LIST M5115UT LISTE DE PIECES DETACHEES M5115UT ERSATZTEILLISTE M5115UT LISTA PARTI DI RICAMBIO M5115UT LISTA DE PIEZAS DE REPUESTO	35066010
TX807 SERVICE MANUEL EUROPE TX807 DOC TECHNIQUE EUROPE TX807 TECHNISCHE DOKUMENTATION EUROPE TX807 DOCUMENTAZIONE TECNICA EUROPE TX807 DOCUMENTACION TECNICA EUROPE	35058840
M5115UT UM FERGUSON GB M5115UT NU FERGUSON GB M5115UT BA FERGUSON GB M5115UT IU FERGUSON GB M5115UT IU FERGUSON GB	25335610

M5115UT

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PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO

THOMSON
20DG15ES
Chassis TX807C

MODULES

MAIN T807CF96C002011 10674920



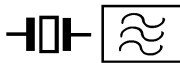
GK001	TSOP1333	25358570
IB001	TDA6107Q/N2	10659660
IF001	TDA9302H	20819860
IP050	TLP621 GR(D4-LF2 T)	△ 20827900
IP090	STV8130	10658850
IP095	MC7805/ACT	46007400
IR001	M22W04	10456150
IS001	TDA7253	20203120
IV001	TDA9351N1	10649480
TL035	S2055N	20578760
ZP092	MP315	△ 10575090
ZP094	MP32	△ 25405650



TI030	DTC144EK SMD	16007030
TL031,TP032, 053,054,061, 070, TS002,004, 050,051, TV020, 022	BC846B SMD	16006260
TL032,TP022	BC337-40	45001466
TL050,TP025, 026,031,060, 080, TV021	BC856B SMD	16006310
TL060	RN2417 SMD	25423180
TL061,062	RN1409 SMD	20688820
TP020	STP3NB90FP	25411640
TP058,072,081, TR002	BCR141 SMD	16006890
TP071,TR001	BCR185 SMD	16006900



DB030,031,050, 051,070,071, DJ020,DP031, 032	BAV21	44044407
DF002,DL004, 005,015,030, 060, DP022,033, 034,035,037, 040,057,058, 070,081, DV070, 071	1N4148	44009209
DF010,DL011, 013,035, DP095	1N4001	16008160
DH001	BZX55C30	80444170
DI030	BA782S	20542050
DL010,012,025, 040, DP026	RGPI0G	10459090
DL014	BZX55B9V1	70438220
DP001,002,003, 004	BYW27-1000	10455390
DP021,043	BZX55B16	11073430
DP023	BZX55C7V5	80444150
DP027	BZX55C27	60447870
DP030	BZX55C11	11073670
DP080	FUF4005/MUR160	16009580
DP090,092	MUR120	10564670
DR001	BZX55B5V1/ZPD5V1 2%	44035702
GE001	LTL307/EE LED	16010330



FI010	0FWK6270K FOS	10503340
FI030	40M4HZ	10664720
FI050	5M5HZ	10658370
QV001	12M0HZ	25418130



PP051	470R0 OHM	10260350
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RB001	1K5 OHM 5% 0,50W	10121880
RB013	10R0 OHM 10% 0,50W	15000160
RB031,051,071	560R0 OHM 10% 0,50W	10257590
RF004,006	1K5 OHM 1% 0,25W	80437630
RF007	1R5 OHM 1% 0,70W	10451140
RF008	2R2 OHM 5% 0,25W	△ 15009870
RF010	1R5 OHM 5% 0,25W	△ 13063950
RL010	0R1 OHM 10% 0,40W	△ 15022510
RL012	0R22 OHM 5% 0,50W	△ 10305450
RL040	47R0 OHM 5% 0,35W	△ 20923340
RL090	86K6 OHM 1% 0,25W	15021680
RP002	18R0 OHM 230V PTC	△ 10509980
RP008	5R1 OHM 10% 2,50W	10472390
RP020	1R0 OHM 5% 2,50W	10383240
RP050	10M0 OHM 5% 0,70W	△ 10074320
RP054	68K1 OHM 1% 0,70W	10147740
RS028	18R0 OHM 5% 0,30W	△ 15009660
RS040	4R7 OHM 5% 0,35W	△ 10226310
RS056	0R47 OHM 10% 0,40W	△ 15022650



CB001	10N0F 3K0V	14036450
CB004	47N0F 5% 250V	40433080
CL003	10N0F 5% 400V	10588870
CL010,012,040, CP089,093	330P0F 20% 1K0V	14035270
CL024	440N0F 5% 250V	43352100
CP001	100N0F 20% 275V	△ 10331520
CP003	68N0F 20% 250V	10256210
CP004	1N5F 10% 1K0V	20338740
CP005,006	4N7F 1K0V	10058740
CP009	3N3F 20% 1K6V	10607950
CP050	2N2F 20% 400V	△ 10344870
CP082	1N0F 10% 500V	10546570



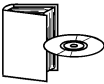
LL005	DSTLH27F	△ 10658470
LL032	DRIVER	20936440
LP002		△ 10654720
LP003	SMT17	△ 10674880

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO

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OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS			EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION					
BB005	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	80298800	FRONT PANEL AND BUTTON GY25TH FACADE ET TOUCHES GY25TH FRONTPLATTE UND TASTE GY25TH PANNELLO FRONTALE E TASTO GY25TH PANEL FRONTAL Y TECLA GY25TH	25459230		20DG15ES PARTS LIST 35125520		
						20DG15ES LISTE DE PIECES DETACHEES		
						20DG15ES ERSATZTEILLISTE		
						20DG15ES LISTA PARTI DI RICAMBIO		
						20DG15ES LISTA DE PIEZAS DE REPUESTO		
BJ005	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	11007219	REAR PANEL GY26TH DOS GY26TH RUECKWAND GY26TH PANNELLO POSTERIORE GY26TH TAPA POSTERIOR GY26TH	25459240		TX807C/CS SERVICE MANUAL 35110300		
						TX807C/CS DOC TECHNIQUE		
						TX807C/CS TECHNISCHE DOKUMENTATION		
						TX807C/CS DOCUMENTAZIONE TECNICA		
						TX807C/CS DOCUMENTACION TECNICA		
BJ006	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	30909940	INFRARED WINDOW GLACE INFRAROUGE INFRAROTOT FENSTER VETRO INFRAROSSO CRISTAL INFRARROJO	25403400		CDROM TX807 VERSION 2 35110290		
						CDROM TX807 VERSION 2		
						CDROM TX807 VERSION 2		
						CDROM TX807 VERSION 2		
						CDROM TX807 VERSION 2		
BQ012	HEADPHONE SOCKET PRISE CASQUE KOPFHUERERBUCHSE PRESA JACK TOMA JACK	20345310	LOGO THOMSON LOGO THOMSON SCHRIFZUG THOMSON MARCHIO THOMSON LOGOTIPO THOMSON	25381430		TX807C/CS UM D/F/I/GB/GR/DK/NL/S/E/P 50011430		
						TX807C/CS NU D/F/I/GB/GR/DK/NL/S/E/P		
						TX807C/CS BA D/F/I/GB/GR/DK/NL/S/E/P		
						TX807C/CS IU D/F/I/GB/GR/DK/NL/S/E/P		
						TX807C/CS IU D/F/I/GB/GR/DK/NL/S/E/P		
BV001	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONECTOR	10362830	16R OHM 10W LOUDSPEAKER 50X90 16R OHM 10W HAUT PARLEUR 50X90 16R OHM 10W LAUSPRECHER 50X90 16R OHM 10W ALTOPARLANTE 50X90 16R OHM 10W ALTAVOZ 50X90	10316960				
FP001	1A6T TIME-LAG FUSE 1A6T FUSIBLE TEMPORISE 1A6T SICHERUNG 1A6T FUSIBILE TEMPORIZZATO 1A6T FUSIBLE TEMPORIZADO	48064700	ON/OFF BUTTON GY25TH TOUCHE MARCHE/ARRET GY25TH EIN-AUS TASTE GY25TH TASTO ACCESO/SPENTO GY25TH TECLA MARCHA/PARADA GY25TH	25459250				
NH001	CTT5010 UHF/VHF TUNER CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF	20812280	POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	10260830				
SK001,002,003,004	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	30011100	A48EAX13X01 CATHODE RAY TUBE A48EAX13X01 TUBE CATHODIQUE A48EAX13X01 FARBBILDROEHRE A48EAX13X01 TUBO CATODICO A48EAX13X01 T.R.C	10543360				
SP005	ON/OFF SWITCH CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTATTORE ACCESO/SPENTO CONTACTOR MAECHA/PARADA	25442860	DEGAUSSING COIL BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETIZZAZIONE BOBINA DE DESIMANTACION	47320196				
			RCT100 REMOTE CONTROL RCT100 TELECOMMANDE RCT100 FERNBEDIENUNG RCT100 TELECOMANDO RCT100 TELEMANDO	10546340				
			FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON	25380830				
			FITTING UPPER CALE SUPERIEURE POLSTER OBEN DISTANZIATORE SUPERIORE CALZO SUPERIOR	25403380				
			FITTING DOWNER CALE INFERIORE POLSTER UNTEN DISTANZIATORE INFERIORE CAZO INFERIOR	25403370				

20DG15ES

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PARTS LIST LISTE PIECES DETACHEES ERSATZTEILLISTE LISTA PARTI DI RICAMBIO LISTA DE PIEZAS DE REPUESTO

THOMSON 14MG15ET Chassis TX807C

MODULES

MAIN T807CF911002010 10675370



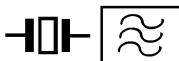
GK001	TSOP1333	25358570
IB001	TDA6107Q/N2	10659660
IF001	TDA9302H	20819860
IP050	TLP621 GR(D4-LF2 T)	△ 20827900
IP090	STV8130	10658850
IP095	MC7805/ACT	46007400
IR001	M22W04	10456150
IS001	TDA7253	20203120
IV001	TDA9351N1	10649480
TL035	S2055N	20578760
ZP094	MP32	△ 25405650



TI030	DTC144EK SMD	16007030
TL031,TP032,	BC846B SMD	16006260
053,054,061,		
070,TS002,004,		
050,051,TV020,		
022		
TL032,TP022	BC337-40	45001466
TL050,TP025,	BC856B SMD	16006310
026,031,060,		
080,TV021		
TL060	RN2417 SMD	25423180
TL061,062	RN1409 SMD	20688820
TP020	STP3NB90FP	25411640
TP058,072,081,	BCR141 SMD	16006890
TR002		
TP071,TR001	BCR185 SMD	16006900



DB004	1N4004	44009009
DB030,031,050,	BAV21	44044407
051,070,071,		
DJ020,DP031,		
032		
DF002,DL004,	1N4148	44009209
005,015,030,		
060,DP022,033,		
034,035,037,		
040,057,058,		
070,081,DV070,		
071		
DF010,DL011,	1N4001	16008160
013,035,DP095		
DH001	BZX55C30	80444170
DI030	BA782S	20542050
DL010,012,025,	RGP10G	10459090
040,DP026,090		
DL014	BZX55B9V1	70438220
DP001,002,003,	BYW27-1000	10455390
004		
DP021,043	BZX55B16	11073430
DP023	BZX55C7V5	80444150
DP027	BZX55C27	60447870
DP030	BZX55C11	11073670
DP080	FUF4005/MUR160	16009580
DP092	MUR120	10564670
DR001	BZX55B5V1/ZPD5V1 2%	44035702
GE001	LTL307/EE LED	16010330



FI010	0FWK6270K FOS	10503340
FI030	40M4HZ	10664720
FI050	5M5HZ	10658370
QV001	12M0HZ	25418130



PP051	470R0 OHM	10260350
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RB001,004	1K5 OHM 5% 0,50W	10121880
RB013	10R0 OHM 10% 0,50W	15000160
RB031,051,071	560R0 OHM 10% 0,50W	10257590
RB033,052,073,	100R0 OHM 5% 0,25W	30943330
RL033,RV005,		
006,010,011,		
012,014,019		
RF004,006	1K5 OHM 1% 0,25W	80437630
RF007	1R82 OHM 1% 0,70W	10451420
RF008	2R2 OHM 5% 0,25W	△ 15009870
RF010	1R5 OHM 5% 0,25W	△ 13063950
RL010	0R1 OHM 10% 0,40W	△ 15022510
RL012	0R22 OHM 5% 0,50W	△ 10305450
RL040	47R0 OHM 5% 0,35W	△ 20923340
RP002	18R0 OHM 220V PTC	△ 41398800
RP008	5R1 OHM 10% 2,50W	10472390
RP020	1R0 OHM 5% 2,50W	10383240
RP050	10M0 OHM 5% 0,70W	△ 10074320
RP054	68K1 OHM 1% 0,70W	10147740
RS028	18R0 OHM 5% 0,30W	△ 15009660
RS040	4R7 OHM 5% 0,35W	△ 10226310
RS056	0R47 OHM 10% 0,40W	△ 15022650




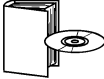
CB001	10N0F 3K0V	14036450
CL003	10N0F 5% 400V	10588870
CL010,012,040,	330P0F 20% 1K0V	14035270
CP089,093		
CL021	6N6F 1K6V	80304700
CL022	470P0F 10% 2K0V	25392030
CL024	440N0F 5% 250V	43352100
CP001	100N0F 20% 275V	△ 40404090
CP003	68N0F 20% 250V	10256210
CP004	1N5F 10% 1K0V	20338740
CP005,006	4N7F 1K0V	10058740
CP008	68U0F 20% 400V	25414980
CP009	3N3F 20% 1K6V	10607950
CP050	2N2F 20% 400V	△ 10344870
CP082	1N0F 10% 500V	10546570

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO

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			EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION					
LL005	DSTLH27F	△ 10658340						
LL032	DRIVER	20936440						
LP002		△ 10654720						
LP003	SMT17	△ 10674870						
OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS								
BB006	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO CATODICO SOPORTE T.R.C	△ 10653850						
BQ012	HEADPHONE SOCKET PRISE CASQUE KOPFHÖRERBUCHSE PRESA JACK TOMA JACK	20345310						
BV001	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONNECTOR	10362830						
FP001	1A6T TIME-LAG FUSE 1A6T FUSIBLE TEMPORISE 1A6T SICHERUNG 1A6T FUSIBILE TEMPORIZZATO 1A6T FUSIBLE TEMPORIZADO	△ 48064700						
IR001	IC SUPPORT 2X4 SUPPORT CI 2X4 IC-FASSUNG 2X4 SUPPORTO CI 2X4 SOPORTE CI 2X4	67449100						
NH001	CTT5010 UHF/VHF TUNER CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF	20812280						
SK001,002,003,004	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	30011100						
SP005	ON/OFF SWITCH CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTATTORE ACCESO/SPENTO CONTACTOR MAECHA/PARADA	△ 25442860						
			A34AGT13X38 CATHODE RAY TUBE A34AGT13X38 TUBE CATHODIQUE A34AGT13X38 FARBBILDROEHRE A34AGT13X38 TUBO CATODICO A34AGT13X38 T.R.C DEGAUSSING COIL BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETIZZAZIONE BOBINA DE DESMANTACION POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION 8R OHM 3W LOUDSPEAKER 40X70 8R OHM 3W HAUT PARLEUR 40X70 8R OHM 3W LAUTSPRECHER 40X70 8R OHM 3W ALTOPARLANTE 40X70 8R OHM OHM 3W ALTAVOZ 40X70 RCT100 REMOTE CONTROL RCT100 TELECOMMANDE RCT100 FERNBEDIENUNG RCT100 TELECOMANDO RCT100 TELEMANDO TELESCOPIC ANTENNA ANTENNE TELESCOPIQUE TELESKOPANTENNE ANTENNA TELESCOPICA ANTENA TELESCOPICA FRONT PANEL GY20TH FACADE GY20TH FRONTPLATTE GY20TH PANNELLO FRONTALE GY20TH PANEL FRONTAL GY20TH REAR PANEL GY20TH DOS GY20TH RUECKWAND GY20TH PANNELLO POSTERIORE GY20TH TAPA POSTERIOR GY20TH LED WINDOW GLACE LED LED FENSTER VETRO LED CRISTAL LED INFRARED WINDOW GLACE INFRAROUGE INFRAROT FENSTER VETRO INFRAROSSO CRISTAL INFRARROJO LOGO THOMSON LOGO THOMSON SCHRIFTZUG THOMSON MARCHIO THOMSON LOGOTIPO THOMSON ON/OFF BUTTON GY20TH TOUCHE MARCHE/ARRET GY20TH EIN-AUS TASTE GY20TH TASTO ACCESO/SPENTO GY20TH TECLA MARCHA/PARADA GY20TH			20786290 20613360 10260830 20901550 10546340 5087882A 25412830 25416570 25316500 25316490 25332060 25454880		
								
						14MG15ET PARTS LIST 14MG15ET LISTE DE PIECES DETACHEES 14MG15ET ERSATZTEILLISTE 14MG15ET LISTA PARTI DI RICAMBIO 14MG15ET LISTA DE PIEZAS DE REPUESTO TX807C/CS SERVICE MANUAL TX807C/CS DOC TECHNIQUE TX807C/CS TECHNISCHE DOKUMENTATION TX807C/CS DOCUMENTAZIONE TECNICA TX807C/CS DOCUMENTACION TECNICA CDROM TX807 VERSION 2 CDROM TX807 VERSION 2 CDROM TX807 VERSION 2 CDROM TX807 VERSION 2 CDROM TX807 VERSION 2 TX807C/CS UM D/F/I/GB/GR/DK/NL/S/ E/P/CZ/H/PL/RU/SK TX807C/CS NU D/F/I/GB/GR/DK/NL/S/ E/P/CZ/H/PL/RU/SK TX807C/CS BA D/F/I/GB/GR/DK/NL/S/ E/P/CZ/H/PL/RU/SK TX807C/CS IU D/F/I/GB/GR/DK/NL/S/ E/P/CZ/H/PL/RU/SK TX807C/CS IU D/F/I/GB/GR/DK/NL/S/ E/P/CZ/H/PL/RU/SK		
						25318340 25317390 25317410 25317400		

14MG15ET

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PARTS LIST

LISTE PIECES DETACHEES

ERSATZTEILLISTE

LISTA PARTI DI RICAMBIO

LISTA DE PIEZAS DE REPUESTO

FERGUSON

T7017U

Chassis TX807CS

MODULES

MAIN T807CF5C3022043 **10684610**
EWM EWM80050 **10679310**
VSM SUB VSM80000 **10705270**



GK101 TSOP1333 25358570
IB001 TDA6107Q/N2 10659660
IF001 TDA8177 15053440
IL101 LM324AN 20679790
IP050 TLP621 GR(D4-LF2 T) Δ 20827900
IP090 STV8130 10658850
IP095 MC7805/ACT 46007400
IR001 M22W04 10456150
IS001 TDA7263 10281150
IS100 MSP3415D-PO 10648130
IV001 TDA9554PS/N1/1/0274 10649490
ZP092 MP315 Δ 10575090
ZP094 MP32 Δ 25405650



TI030,045 DTC144EK SMD 16007030
TL031,TP032, BC846B SMD 16006260
 053,054,061,
 070,TS050,100,
 130,TV020,022
TL032,TP022 BC337-40 45001466
TL035 S2055N 20578760
TL050,TP025, BC856B SMD 16006310
 026,031,060,
 080,TV021
TL060 RN2417 SMD 25423180
TL061,062 RN1409 SMD 20688820
TL101 IRF630FP 25453960
TP020 STP6NB90FP 25460310
TP058,072,081, BCR141 SMD 16006890
TR002
TP071,TR001 BCR185 SMD 16006900



DB004 1N4004 44009009
DB030,031,050, BAV21 44044407
 051,070,071,
DJ120,DL101,
DP031,032
DF002,003,101, 1N4148 44009209
 102,DH004,
DL004,015,030,
 060,103,116,
 117,DP022,033,
 034,035,037,
 040,057,058,
 070,081,DV070,
 071,072
DF010,DL011, 1N4001 16008160
 013,035,DP095
DH001 BZX55C30 80444170
DI030,040 BA782S 20542050
DL010,012,025, RGP10G 10459090
 040,DP026,090
DL014 BZX55B15/ZPD15 2% 80444020
DL021 BY228 16008370
DL104,DR001 BZX55B5V1/ZPD5V1 2% 44035702
DL121,122 RGP15G 10272800
DL138 BAT42 16007410
DP001,002,003, BYW27-1000 10455390
 004
DP021 BZX55B16 11073430
DP023 BZX55C7V5 80444150
DP027 BZX55B30 20475340
DP030 BZX55C11 11073670
DP080 MUR460 16009650
DP092 EGP10D 20953640
GE101 LTL307/EE LED 16010330



FI010 0FWK6257K FOS 10545030
FI020 0FWK9650M FOS 10545440
FI030 40M4HZ 10664720
FI050 5M74HZ 20338170
QS100 18M432HZ 10334670
QV001 12M0HZ 25418130



LL122 10636390



PL140,143 4K7 OHM 10082930
PL141 470R0 OHM 10260250
PP051 470R0 OHM 10260350



RB001,004, 1K5 OHM 5% 0,50W 10121880
RL026
RB013 10R0 OHM 10% 0,50W 15000160
RB031,051,071 560R0 OHM 10% 0,50W 10257590
RF004,006, 1K5 OHM 1% 0,25W 80437630
RK103
RF007 1R21 OHM 1% 0,70W 13010820
RF008 2R2 OHM 5% 0,25W Δ 15009870
RK101 453R0 OHM 1% 0,250W 15018140
RK102 681R0 OHM 1% 0,25W 15020310
RK104 3K32 OHM 1% 0,25W 15017270
RL010 0R1 OHM 10% 0,40W Δ 15022510
RL012 0R22 OHM 5% 0,50W Δ 10305450
RL040 47R0 OHM 5% 0,35W Δ 20923340
RL090 127K0 OHM 1% 0,40W 41310702
RP002 18R0 OHM 220V PTC Δ 41398800
RP008 4R7 OHM 5% 3W 25477780
RP020 0R68 OHM 5% 2,5W 20822410
RP050 10M0 OHM 5% 0,70W Δ 10074320
RS039,040,140 4R7 OHM 5% 0,35W Δ 10226310
RS056 0R47 OHM 10% 0,40W Δ 15022650
RS160 3R9 OHM 5% 0,25W Δ 15009970

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO

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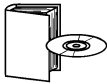
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REV. N° 0 00 / 00 **00000000**
1/3



		
CB001	10N0F 3K0V	14036450
CB004	47N0F 5% 250V	40433080
CL003	22N0F 5% 400V	10535740
CL010,012,026,040,CP089,093	330P0F 20% 1K0V	14035270
CL021	14N4F 3,5% 1K6V	10042750
CL024	440N0F 5% 250V	43352100
CL122	27N0F 5% 400V	10263540
CL123	2U7F 10% 100V	10161170
CL144	100P0F 20% 1K0V	14035280
CP001	100N0F 20% 275V	△ 10331520
CP003	68N0F 20% 250V	10256210
CP004	1N5F 10% 1K0V	20338740
CP005,006	4N7F 1K0V	10058740
CP008	150U0F 20% 400V	13050060
CP009	3N3F 20% 1K6V	10607950
CP050	2N2F 20% 400V	△ 10344870
CP082	1N0F 10% 500V	10546570
		
LL005	DSTMH30	△ 10691490
LL026	23U0H 15%	△ 10678590
LL032	DRIVER	20936440
LP002	25M0H	△ 10688710
LP003	SMT	△ 10693580
OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS		
BB005	CATHODE RAY TUBE SOCKET △ SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	80298800
BJ110	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH	10037440
BQ112	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	20345310
BV001	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONNECTOR	10362830
CH200	ON/OFF SWITCH MSB2000 △ CONTACTEUR MARCHE/ARRET MSB2000 EIN-AUS SCHALTER MSB2000 CONTATTORE ACCESSO/ SPENTO MSB2000 CONTACTOR MARCHA/PARADA MSB2000	10276500
CJ100	THT CABLE 600MM △ CABLE THT 600MM KABEL THT 600MM CAVO THT 600MM CABLE THT 600MM	10562580

CJ105	CABLE 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED KABEL 460MM 20KV HT STRIPPED CAVO 460MM 20KV HT STRIPPED CABLE 460MM 20KV HT STRIPPED	△ 10369650
FP001	1A6T 250V TIME-LAG FUSE 1A6T 250V FUSIBLE TEMPORISE 1A6T 250V SICHERUNG 1A6T 250V FUSIBILE TEMPORIZZATO 1A6T 250V FUSIBLE TEMPORIZADO	△ 48064700
NH001	CTT5010 UHF/VHF TUNER CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF	20812280
SK101,102,103,104	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUPTORE MICROCONTACTOR	30011100
EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION		
FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL		25371140
REAR PANEL GY20TH DOS GY20TH RUECKWAND GY20TH PANNELLO POSTERIORE GY20TH TAPA POSTERIOR GY20TH	△	25450010
INFRARED WINDOW GLACE INFRAROUGE INFRARÖTFENSTER VETRO INFRAROSSO CRISTAL INFRARROJO		25361990
LOGO FERGUSON LOGO FERGUSON SCHRIFTZUG FERGUSON MARCHIO FERGUSON LOGOTIPO FERGUSON		25295050
CHASSIS SUPPORT SUPPORT CHASSIS CHASSIS HALTER SUPPORTO CHASSIS SOPORTE CHASSIS		25382530
8R OHM 15W LOUDSPEAKER 60X125 8R OHM 15W HAUT PARLEUR 60X125 8R OHM 15W LAUTSPRECHER 60X125 8R OHM 15W ALTOPARLANTE 60X125 8R OHM 15W ALTAVOZ 60X125		10467060
ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN-AUS TASTE TASTO ACCESO/SPENTO TECLA MARCHA/PARADA		25309090
BUTTON ASSY ENSEMBLE DE TOUCHES TASTENEINHEIT ASSIEME TASTI CONJUNTO DE TECLAS		25312630

POWER SUPPLY LEAD	△ 25420360
CORDON D'ALIMENTAZION	
NETZKABEL	
CAVO DI ALIMENTAZIONE	
CABLE DE ALIMENTACION	
CORD STOPPER	25071420
ATTACHE CORDON SECTEUR	
ZUGENTLASTUNG	
BRIDA CORDONE DI ALIMENTAZIONE	
SUJECION CABLE DE ALIMENTACION	
A66EHJ13X15 CATHODE RAY TUBE	△ 10715790
A66EHJ13X15 TUBE CATHODIQUE	
A66EHJ13X15 FARBBILDROEHRE	
A66EHJ13X15 TUBO CATODICO	
A66EHJ13X15 T.R.C	
DEGAUSSING COIL	△ 47320183
BOBINE DE DEMAGNETISATION	
ENTMAGNETISIERUNGSSPULE	
BOBINA DI SMAGNETTIZZAZIONE	
BOBINA DE DESIMANTACION	
RCTMB100 REMOTE CONTROL	20879230
RCTMB100 TELECOMMANDE	
RCTMB100 FERNBEDIENUNG	
RCTMB100 TELECOMANDO	
RCTMB100 TELEMANDO	
FOLDING BOX	25354290
EMBALLAGE CARTON	
KARTON	
IMBALLAGGIO CARTONE	
EMBALAJE CARTON	
FITTING DOWNER	25325150
CALE INFERIEURE	
POLSTER UNTEN	
DISTANZIATORE INFERIORE	
CALZO INFERIOR	
FITTING UPPER	25325170
CALE SUPERIEURE	
POLSTER OBEN	
DISTANZIATORE SUPERIORE	
CALZO SUPERIOR	
MAINTENANCE TOOLS	
MAINTENANCE	
WERKZEUG FUER DAS GERAET	
UTENSILI DI MANUTENZIONE	
MANTENIMIENTO	
TX807C/CS 110D POWER SUPPLY REPAIR KIT	35135370
TX807C/CS 110D KIT DE MAINTENANCE ALIMENTATION	
TX807C/CS 110D REPARATURSET NETZTEIL	
TX807C/CS 110D KIT PER RIPARARE L'ALIMENTAZIONE	
TX807C/CS 110D KIT DE REPARACION DE L'ALIMENTACION	



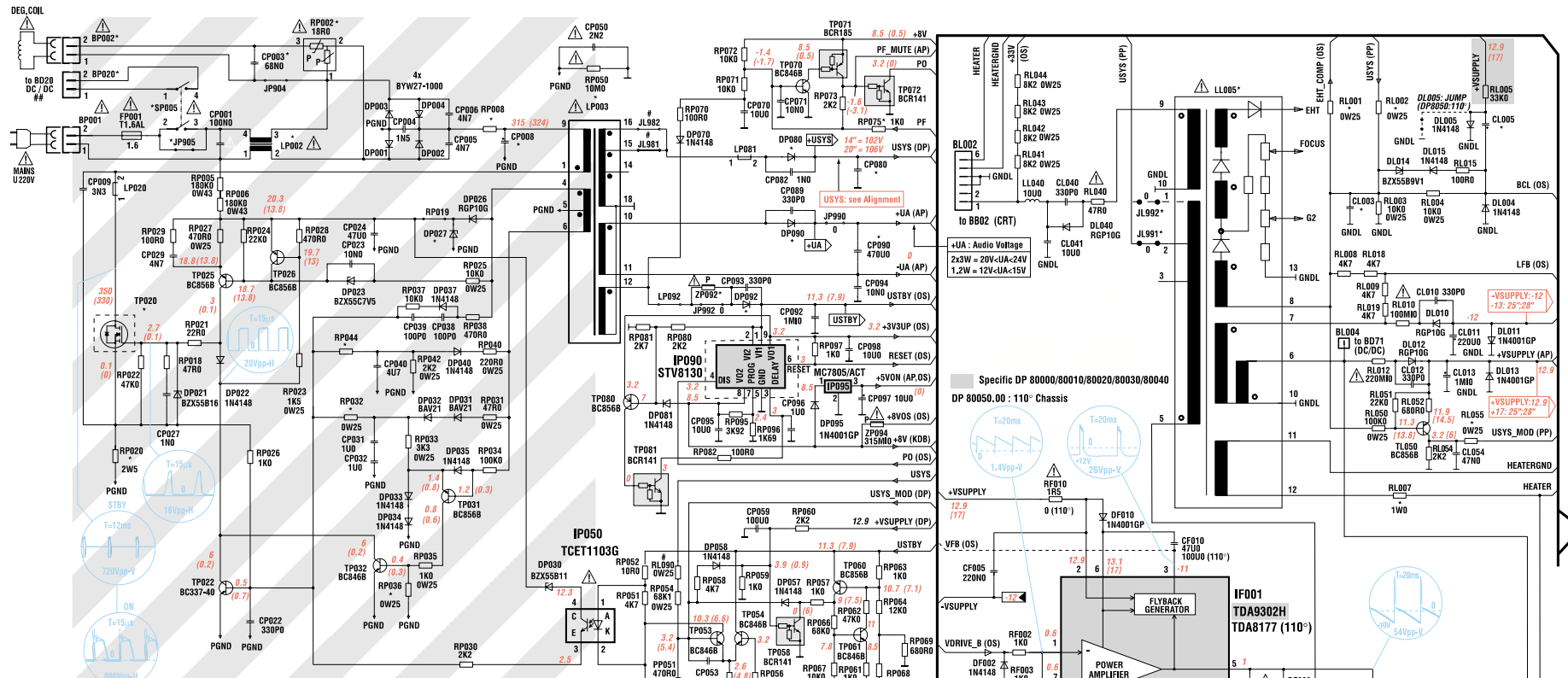
T7017U PARTS LIST	35151780
T7017U LISTE DE PIECES DETACHEES	
T7017U ERSATZTEILLISTE	
T7017U LISTA PARTI DI RICAMBIO	
T7017U LISTA DE PIEZAS DE REPUESTO	
TX807C/CS SERVICE MANUAL	35110300
TX807C/CS DOC TECHNIQUE	
TX807C/CS TECHNISCHE DOKUMENTATION	
TX807C/CS DOCUMENTAZIONE TECNICA	
TX807C/CS DOCUMENTACION TECNICA	
TX807C/CS SERVICE MANUAL SUPPLEMENT	35141950
TX807C/CS DOC TECHNIQUE ADDITIF	
TX807C/CS SECHNISCHE DOKUMENTATION ZUSAT	
TX807C/CS DOCUMENTAZIONE ADDITIVO	
TX807C/CS DOCUMENTACION ADITIVO	
CDROM TX807 VERSION 2	35110290
CDROM TX807 VERSION 2	
CDROM TX807 VERSION 2	
CDROM TX807 VERSION 2	
CDROM TX807 VERSION 2	
TX807C/CS UM 10 LANGUAGES	50011430
TX807C/CS NU 10 LANGUAGES	
TX807C/CS BA 10 LANGUAGES	
TX807C/CS IU 10 LANGUAGES	
TX807C/CS IU 10 LANGUAGES	

OPTION
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OPZIONE
OPCION

ST7040SB TV STAND	35151900
ST7040SB MEUBLE TV	
ST7040SB TV-SCHRANK	
ST7040SB MOBILE TV	
ST7040SB MUEBLE TV	

T7017U

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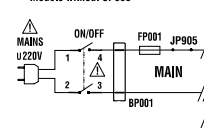


	PP 8000D PP 8002	PP 8001	PP 8003	PP 8005	PP 8007
BP002	-	X	X	X	-
BP20/99	-	-	-	-	X
CP003	X	X	X	X	-
CP008	6800	10000	10000	15000	6800
CP080	10000	10000	10000	22000	10000
CP090	16.0V	25.0V	25.0V	25.0V	16.0V
DP027	BZX55B27	BZX55B27	BZX55B27	BZX55B30	BZX55B27
DP030	MUR160	MUR160	MUR160	MUR160	MUR160
DP090	RG10G	MUR120	MUR120	RG10G	RG10G
DP092	MUR120	MUR120	MUR120	EGP100	EGP100
JP005	-	-	-	-	-
JP092	X	-	X	X	-
LP002	60M0	60M0	60M0	25M0	12M0
LP003	106S8360	106S6090	106S6090	106S3580	106S5630
RP002	X	X	X	X	-
RP008	SR12.5W	SR12.5W	SR12.5W	4R7/3W	SR12.5W
RP020	1R0	1R0	1R0	680M0	1R0
RP032	33K0	33K0	33K0	27K0	33K0
RP036	2K2	2K2	2K2	1K8	2K2
RP044	12K0	10K0	10K0	7K5	12K0
RP075	X	-	-	-	X
SP005	X	-	-	-	X
TP020	STP3NB90FP	STP3NB90FP	STP3NB90FP	STP3NB90FP	STP3NB90FP
ZP092	-	MP315	MP315	MP315	-

X : Inserted - : Not inserted

	CL003	CL005	CL021	CL022	CL024	CL033	CL021	LL005	RF007	RF010	RL001	RL002	RL007	RL034	RL055	RL926	RL991	RL992
DP 3000D 90° 4/3	10N	4U7	6N6	33P0	390N0	22N0	-	106S8460	1R82	1R5	82K0	120K0	2R2	47R0	68K0	X	-	X
DP 80010 90° 4/3	10N	4U7	6N6	33P0	440N0	22N0	-	106S8340	1R82	1R5	82K0	100K0	2R2	39R0	1W0	68K0	X	X
DP 80020 90° 4/3	10N	4U7	7N6	-	330N0	22N0	-	106S8470	1R5	1R5	82K0	91K0	2R2	33R0	1W0	68K0	X	X
DP 80030 90° 4/3	10N	4U7	7N6	-	440N0	22N0	-	106S8470	1R5	1R5	82K0	82K0	1R0	33R0	1W0	68K0	X	X
DP 80040 90° 4/3	10N	4U7	8N3	-	440N0	22N0	-	106S4690	1R21	1R5	91K0	91K0	1R0	27R0	1W0	68K0	-	X
DP 80050 110° 4/3	22N	2U2	14N6	-	440N0	100N0	X	106S4690	1R21	0	220K0	91K0	1R0	10R0	0W43	220K0	-	X

Models without SP005



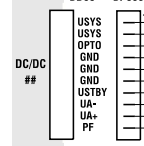
(0.7) : Standby

Use isolating mains transformer.
Utiliser un transformateur isolateur du secteur.
Einen Trenntrafo verwenden.
Utilizzare un trasformatore isolatore da rete.



Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

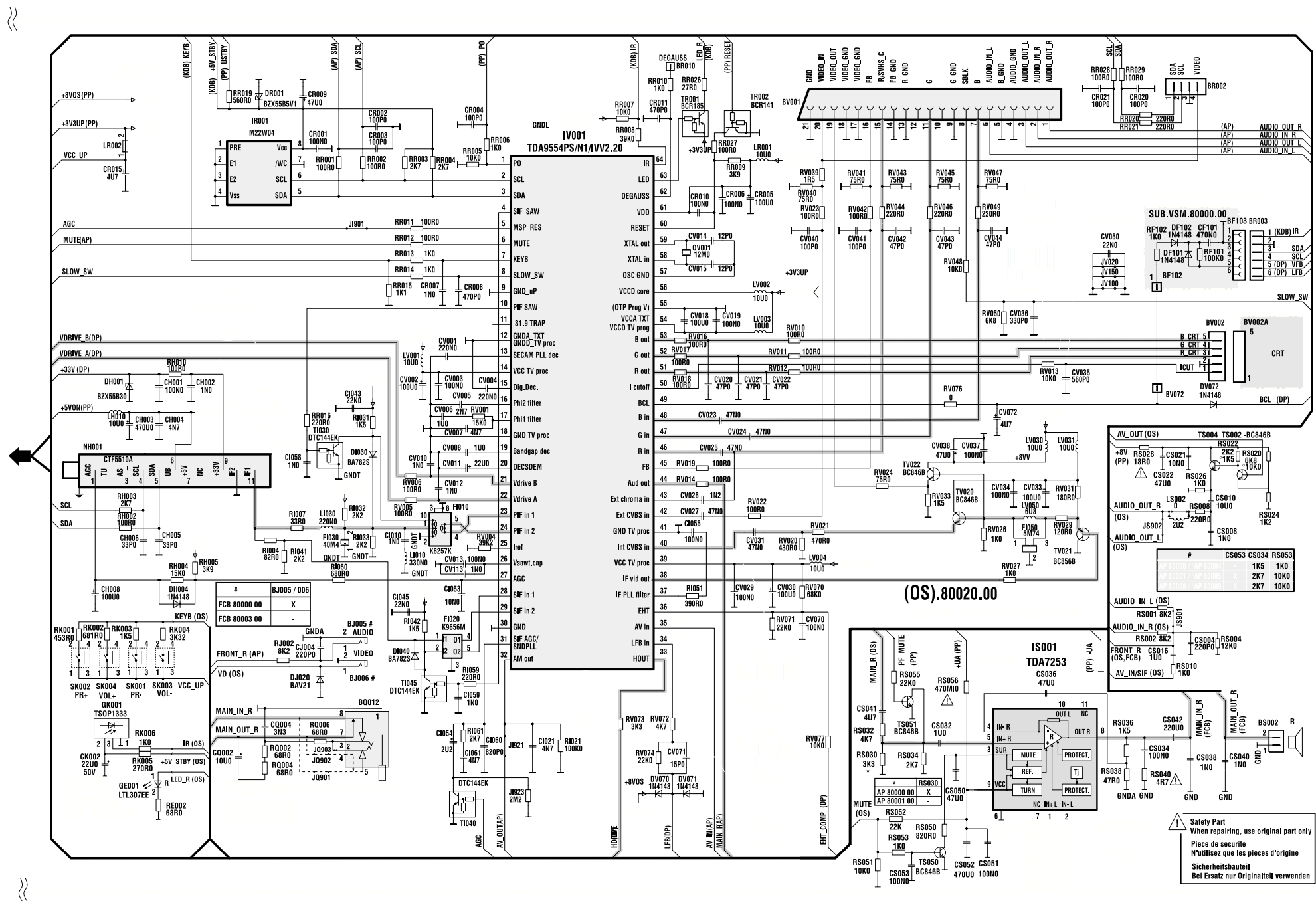
Note :
Power Supply primary circuit measurements.
- Use only (PGND) connection point.
Attention :
Mesure dans la partie primaire de l'alimentation
- Utiliser la masse du bloc alimentation (PGND).
Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).
Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (PGND).
Cuidado :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (PGND).

= value see DP 8... partlists
: only some models

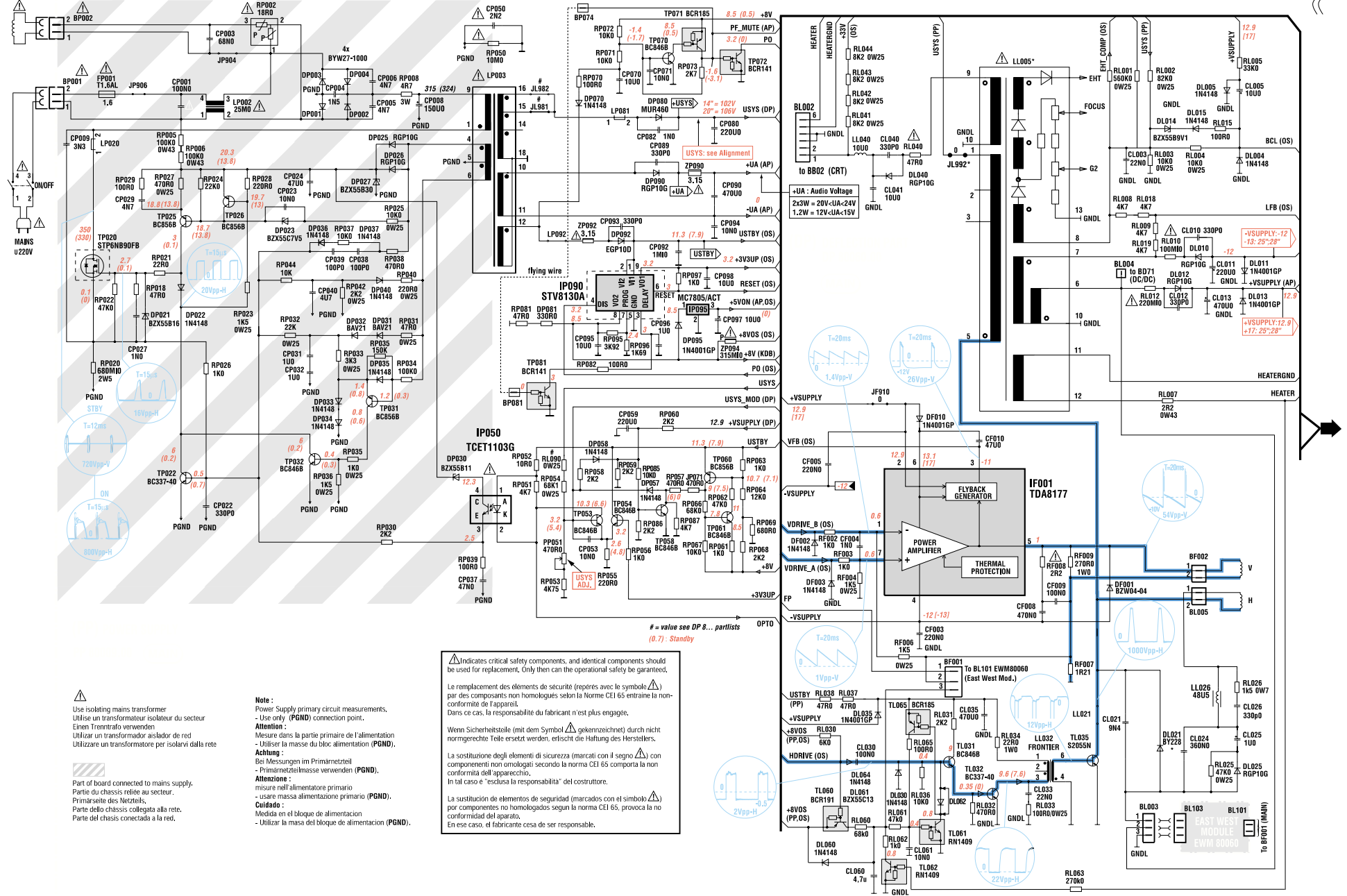


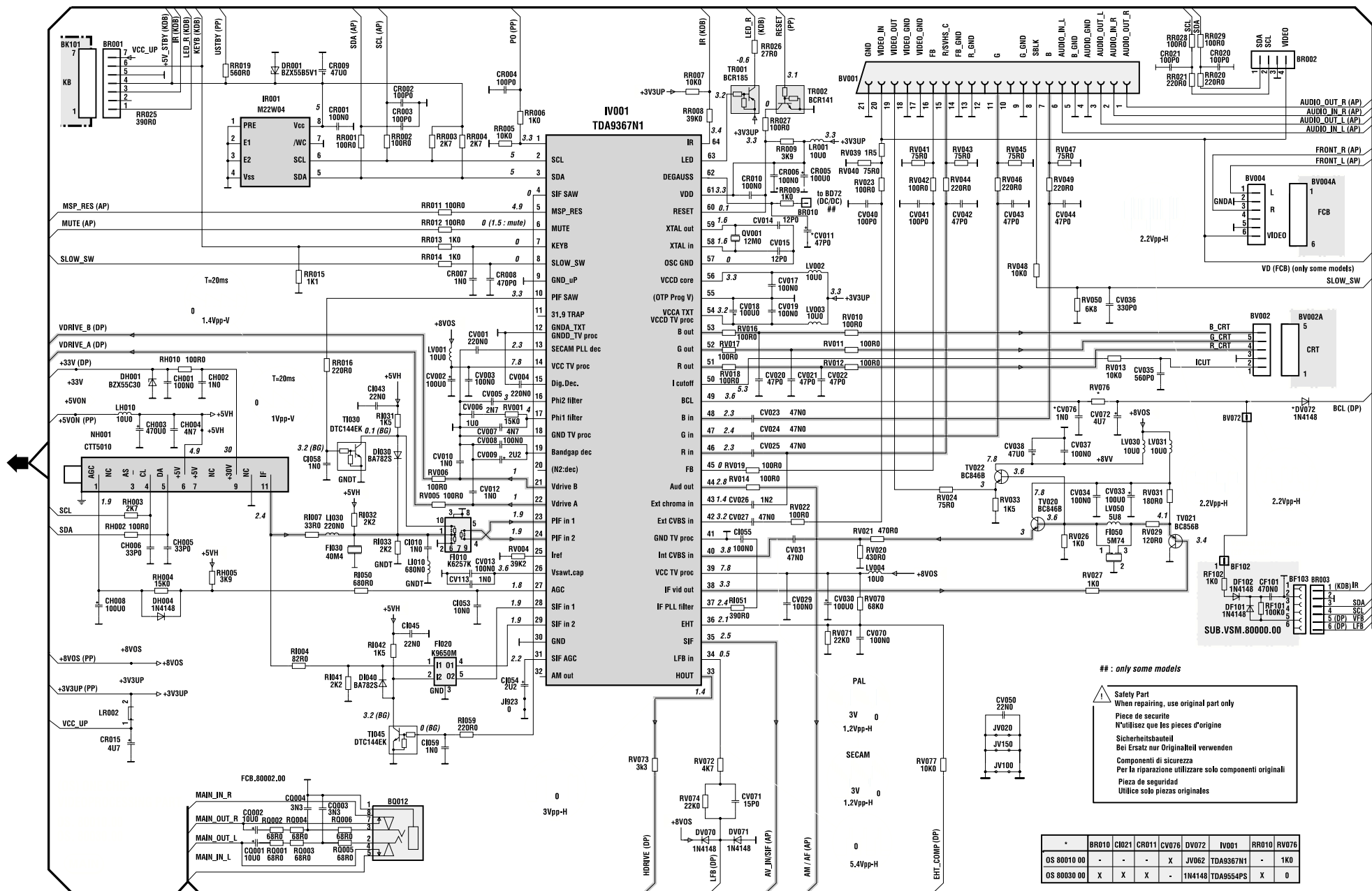
(0.7) : Standby
(17) : Specific 110° (25°-28°)

Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.
Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.
Wenn Sicherheitssteile (mit dem Symbol ) gekennzeichnet durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

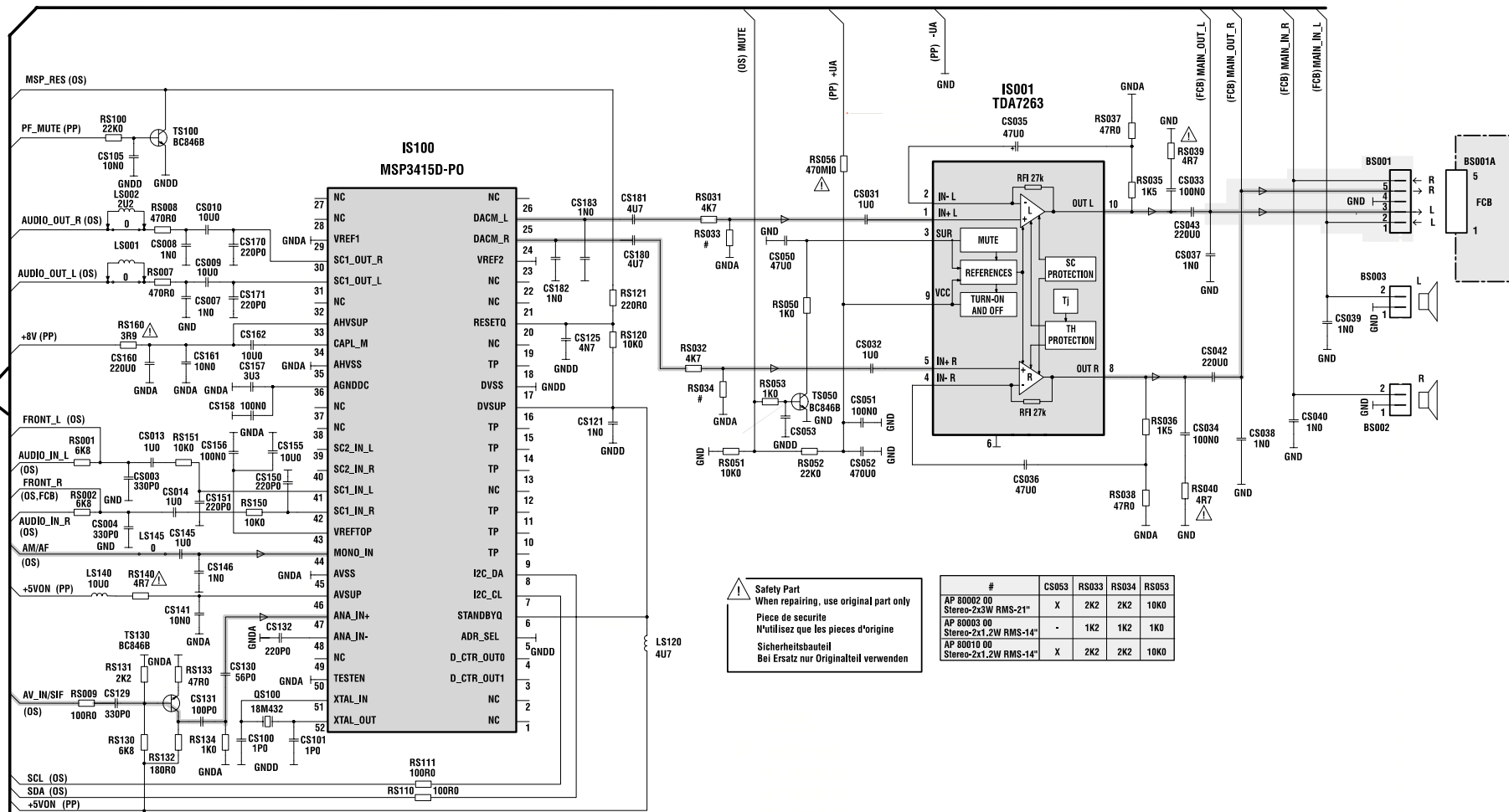


DEG.COIL

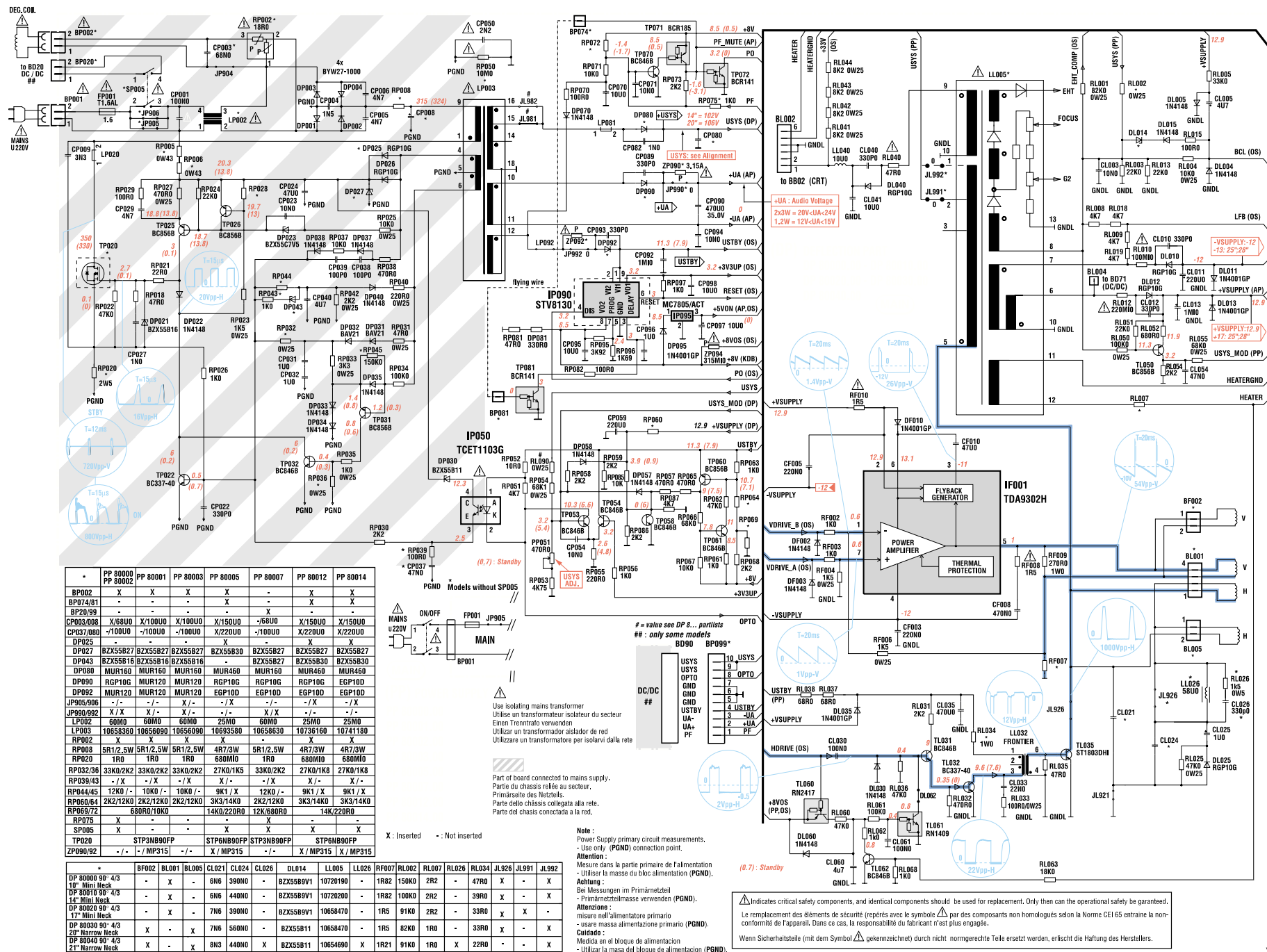


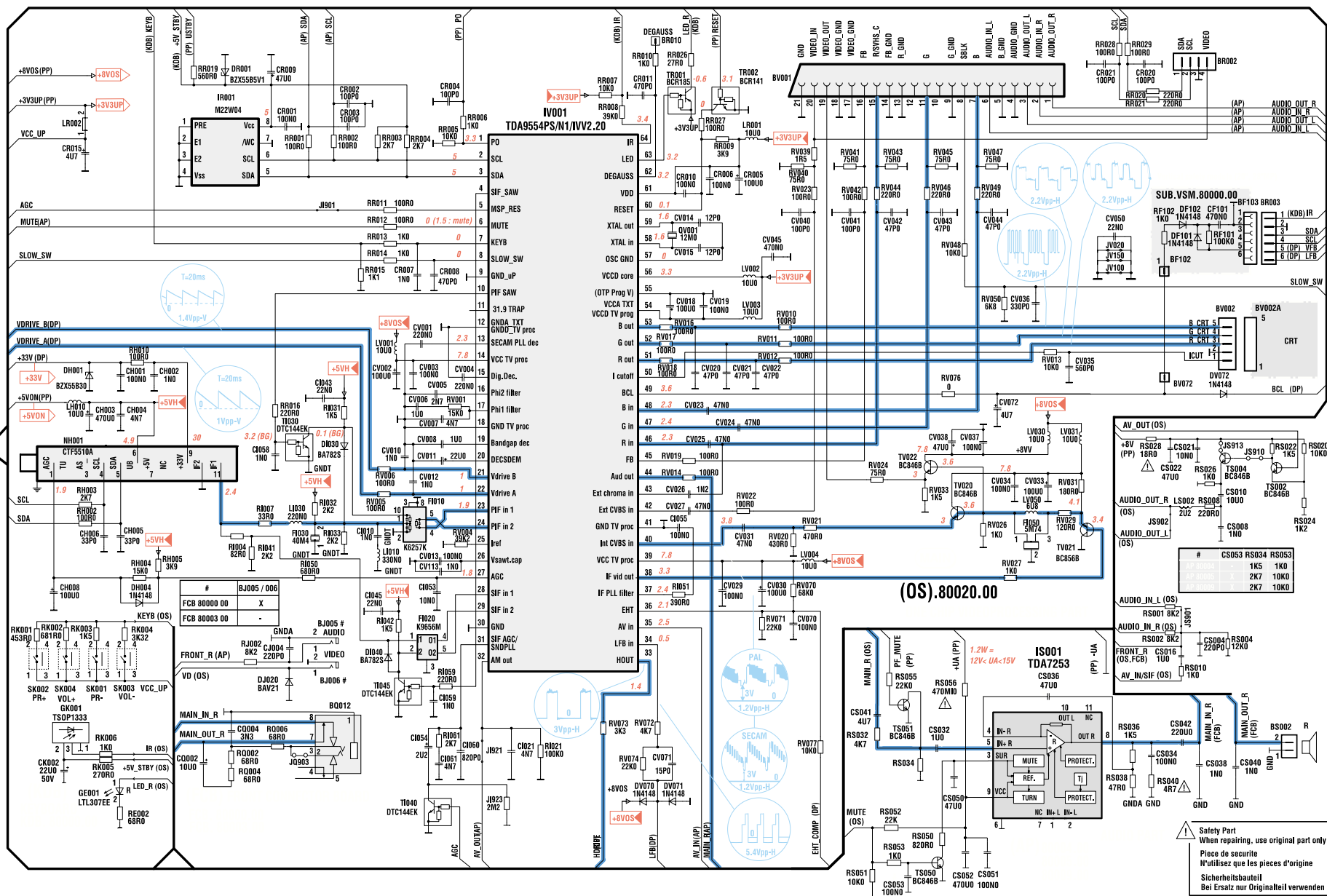


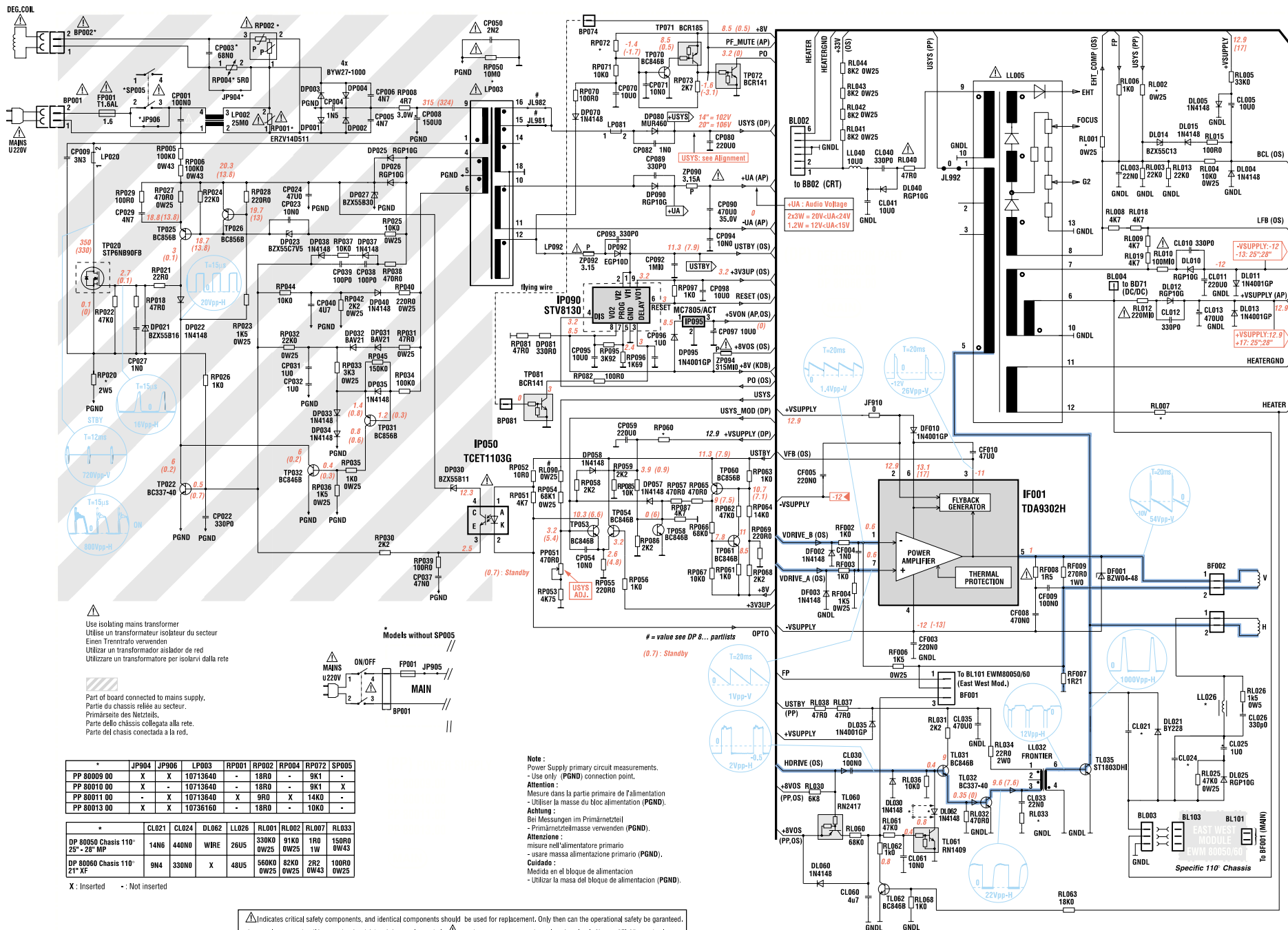
*	BR010	CI021	CR011	CV076	DV072	IV001	RR010	RV076
OS 80010 00	-	-	-	X	JV062	TDA9367N1	-	1K0
OS 80030 00	X	X	X	-	1N4148	TDA9554PS	X	0



Safety Part
When repairing, use original part only
Pièce de sécurité
N'utilisez que les pièces d'origine
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden









Usa isolating mains transformer
Utilisez un transformateur isolateur du secteur
Einen Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarvi dalla rete

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chasis conectada a la red.

*	JP904	JP906	LP003	RP001	RP002	RP004	RP072	SP005
PP 80009 00	X	X	10713640	-	18R0	-	9K1	-
PP 80010 00	X	-	10713640	-	18R0	-	9K1	X
PP 80011 00	-	X	10713640	X	9R0	X	14K0	-
PP 80013 00	X	X	10736160	-	18R0	-	10K0	-

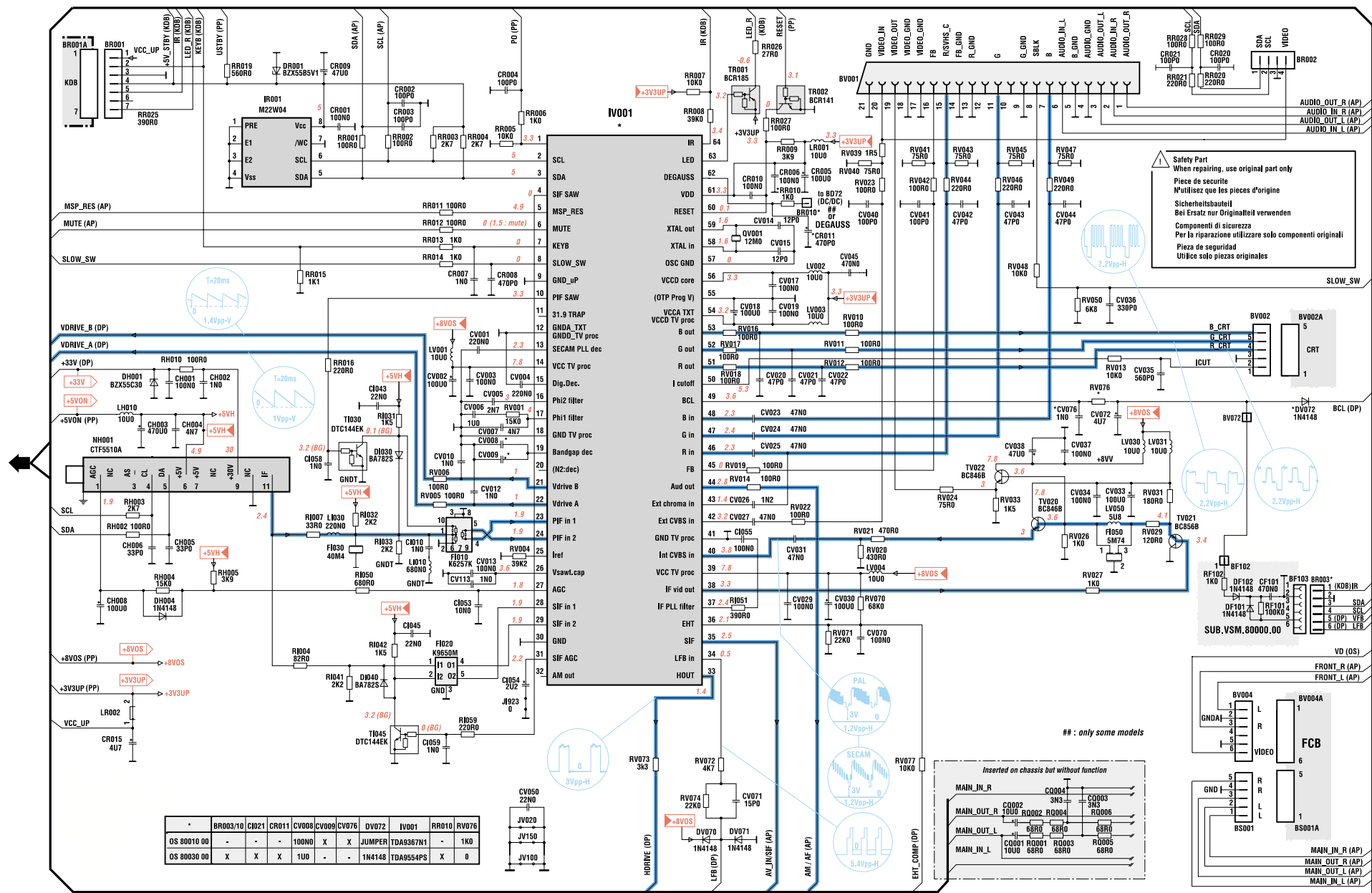
*	CL021	CL024	DL062	LL026	RL001	RL002	RL007	RL033
DP 80050 Chasis 110° 25° - 28° MP	14N6	440N0	WIRE	26U5	330K0 OW25	91K0 OW25	1R0 1W	150R0 OW43
DP 80060 Chasis 110° 21° XF	9N4	330N0	X	48U5	56K0 OW25	82K0 OW25	2R2 OW43	100R0 OW25

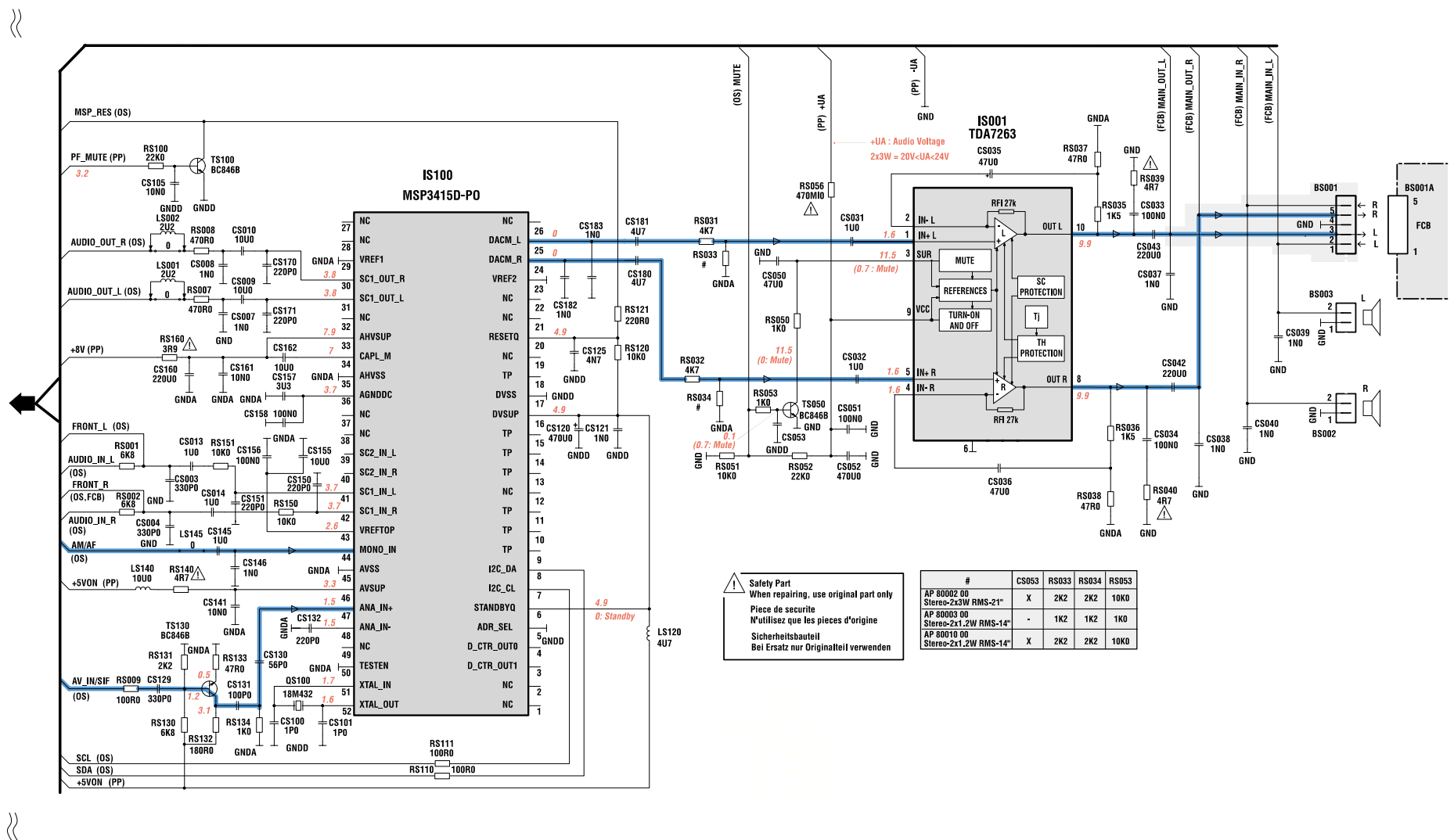
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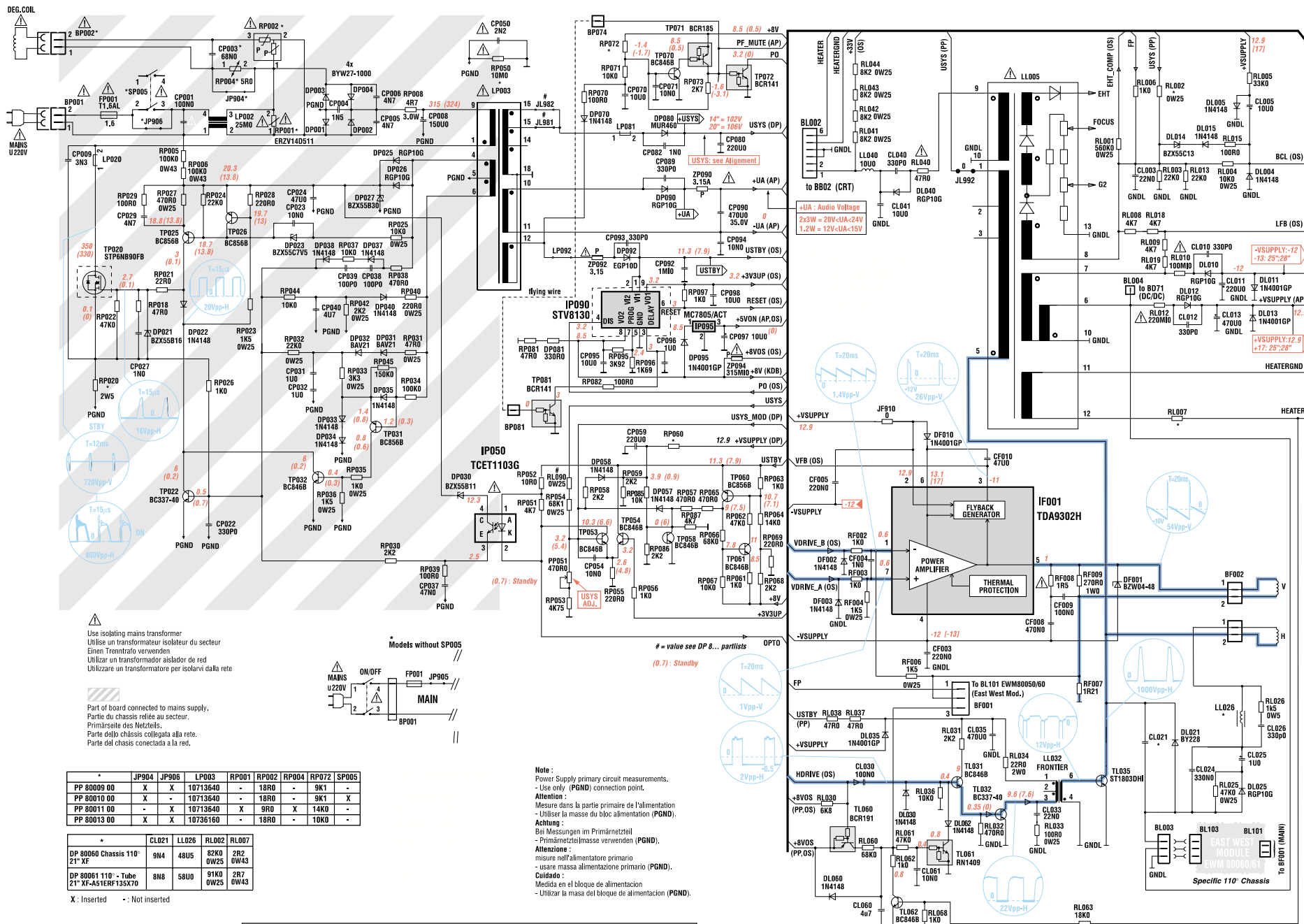
Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.
Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.
Wenn Sicherheitsteile (mit dem Symbol ) gekennzeichnet durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

Note :
Power Supply primary circuit measurements.
- Use only (PGND) connection point.
Attention :
Mesure dans la partie primaire de l'alimentation
- Utiliser la masse du bloc alimentation (PGND).
Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).
Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (PGND).
Cuidado :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (PGND).

(0.7) : Standby
(17) : Specific 110° (25°-28°)







Use isolating mains transformer
 Utilisez un transformateur isolateur du secteur
 Einen Trenntrafo verwenden
 Utilizar un transformador aislador de red
 Utilizzare un trasformatore per isolarvi dalla rete

Part of board connected to mains supply.
 Partie du chassis reliée au secteur.
 Primärseite des Netzteils.
 Parte dello chassis collegata alla rete.
 Parte del chasis conectada a la red.

	JP904	JP906	LP003	RP001	RP002	RP004	RP072	SP005
PP 80009 00	X	X	10713640	-	18R0	-	9K1	-
PP 80010 00	X	-	10713640	-	18R0	-	9K1	X
PP 80011 00	-	X	10713640	X	9R0	X	14K0	-
PP 80013 00	X	X	10736160	-	18R0	-	10K0	-

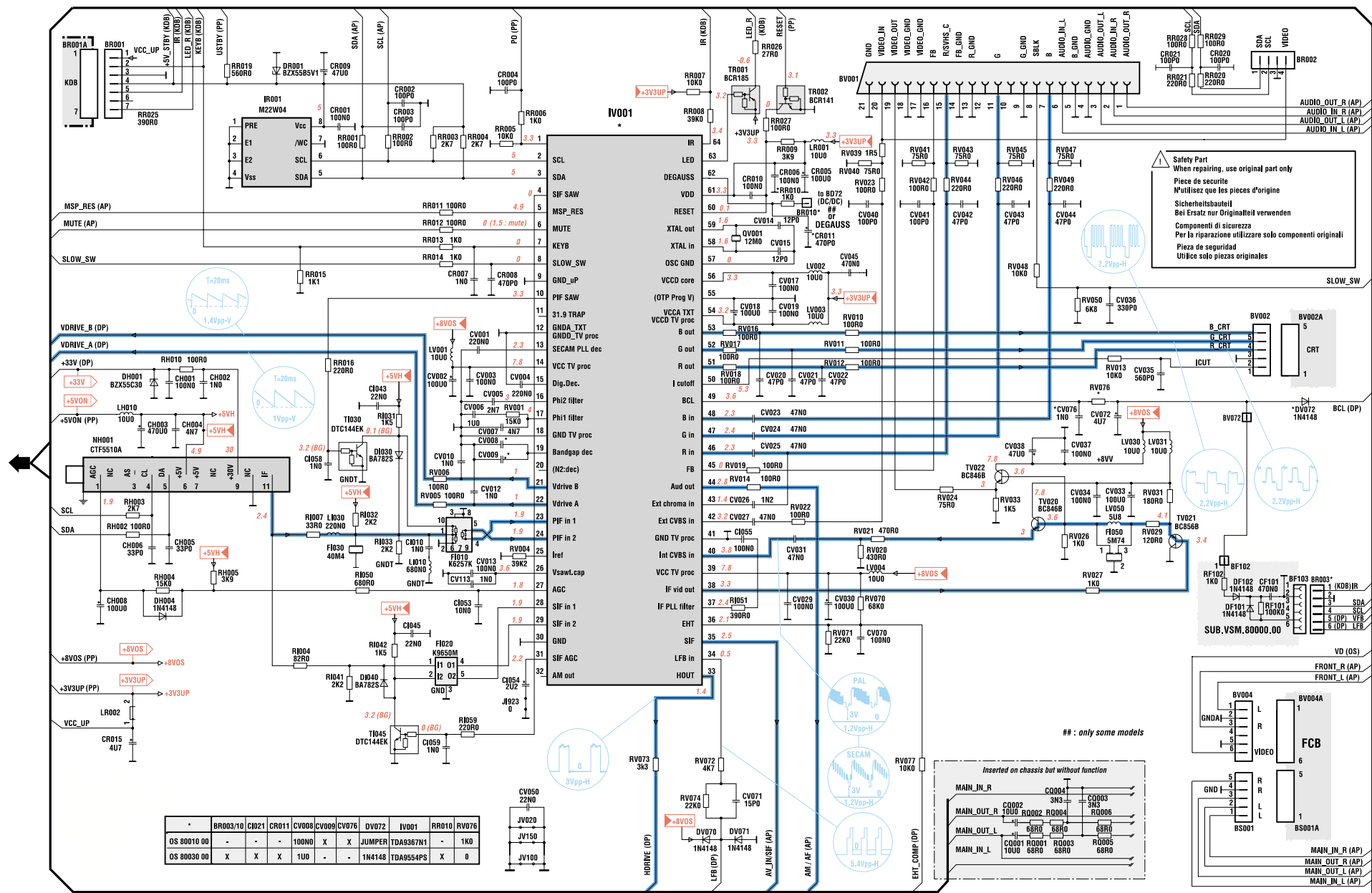
	CL021	LL026	RL002	RL007
DP 80060 Chassis 110° 21" XF	9N4	48U5	82K0 0W25	2R2 0W43
DP 80061 110° - Tube 21" XF-ASTERF135X70	8N8	58U0	91K0 0W25	2R7 0W43

X: Inserted - : Not inserted

Note:
 Power Supply primary circuit measurements.
 - Use only (PGND) connection point.
Attention:
 Mesure dans la partie primaire de l'alimentation
 - Utiliser la masse du bloc alimentation (PGND).
Achtung:
 Bei Messungen im Primärnetzteil
 - Primärnetzteil/masse verwenden (PGND).
Attenzione:
 misura nell'alimentatore primario
 - usare massa alimentazione primario (PGND).
Cuidado:
 Medida en el bloque de alimentación
 - Utilizar la masa del bloque de alimentación (PGND).

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.
 Le remplacement des éléments de sécurité (repérés avec le symbole ⚠ par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.
 Wenn Sicherheitssteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

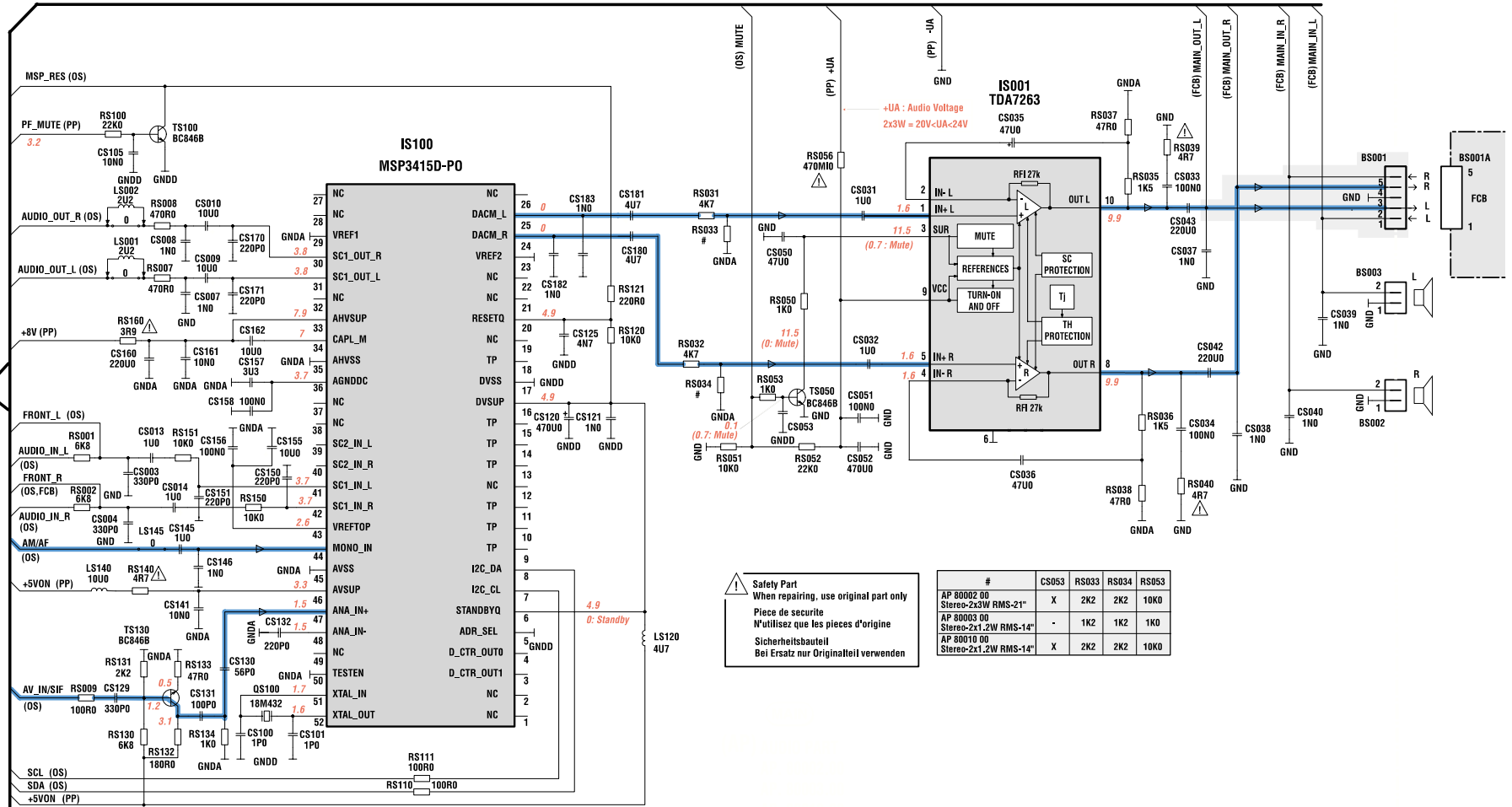
(0.7) : Standby
 (17) : Specific 110° (25°-28°)



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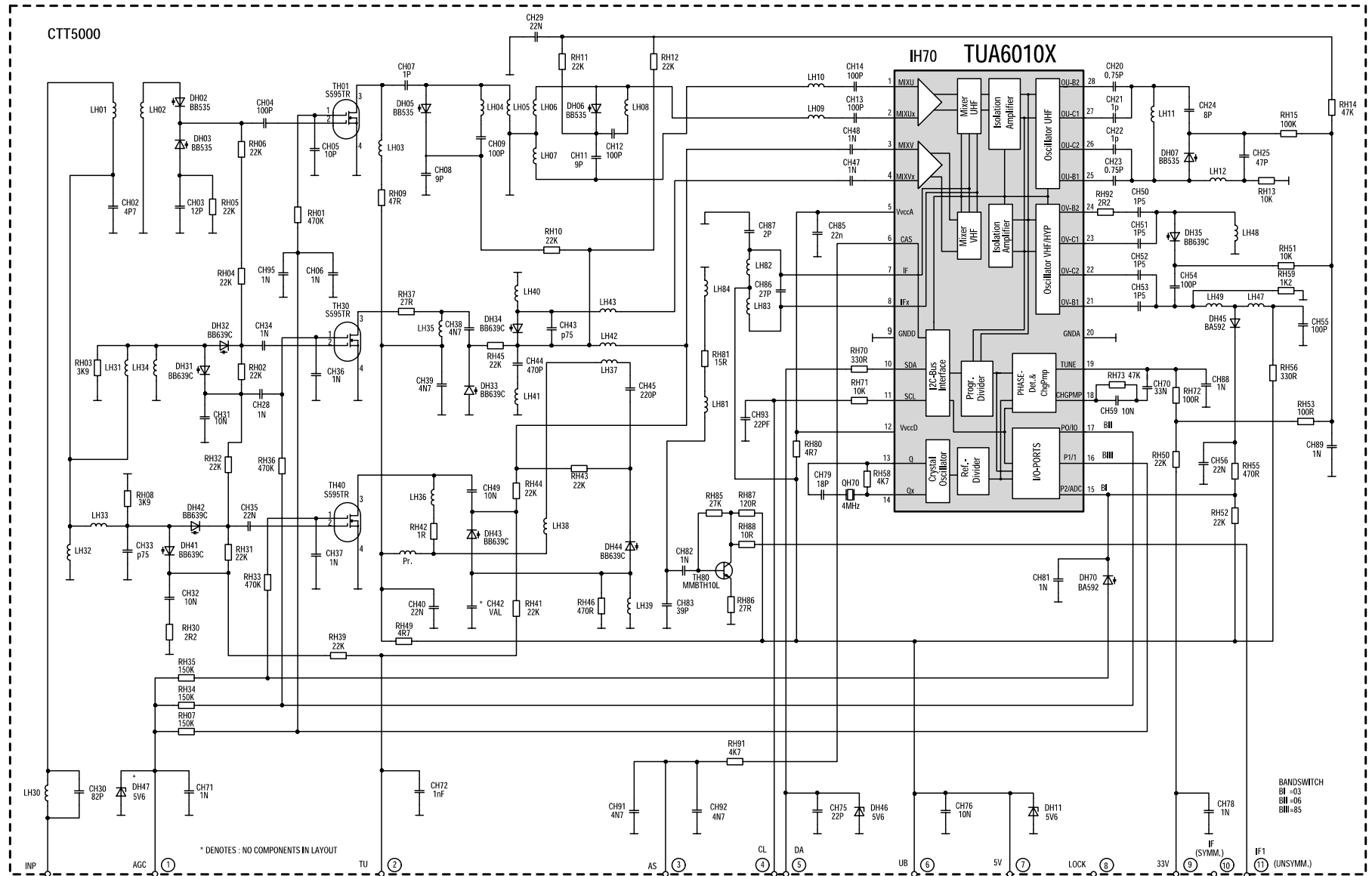


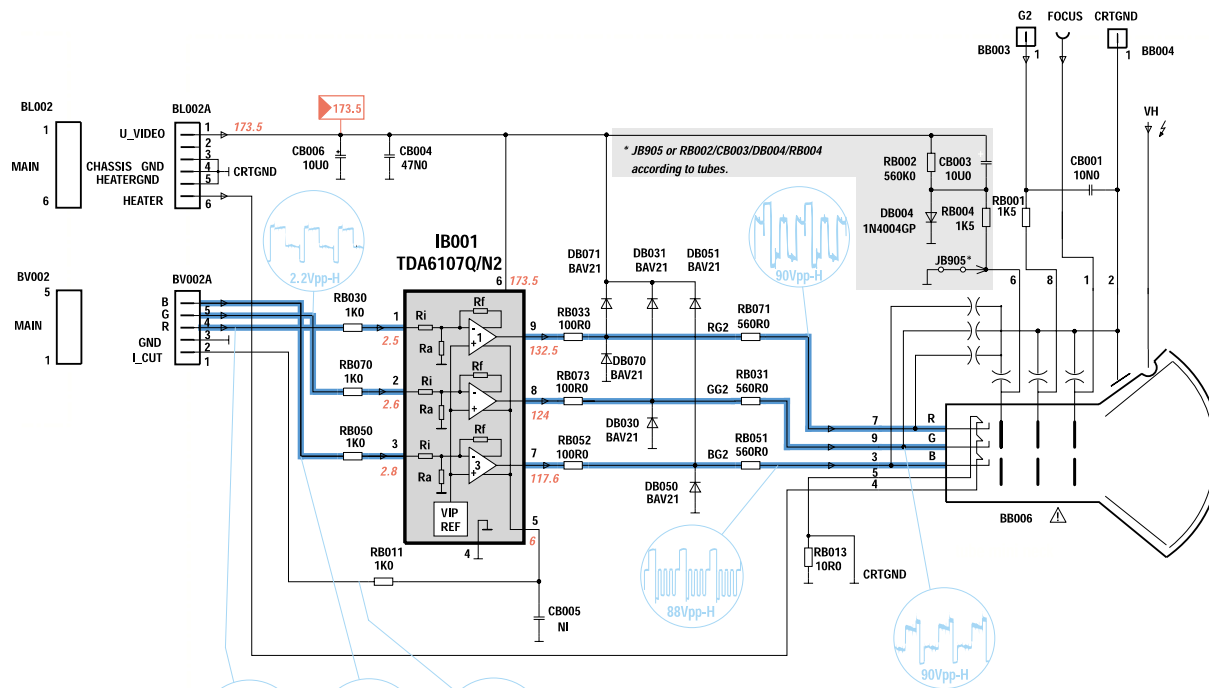
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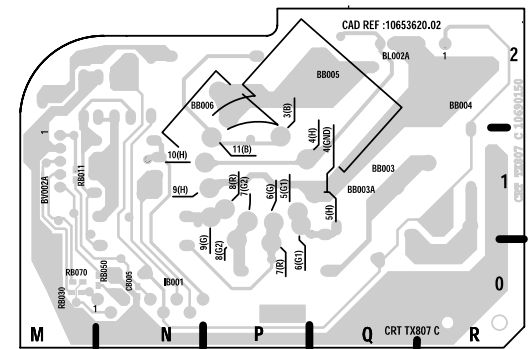
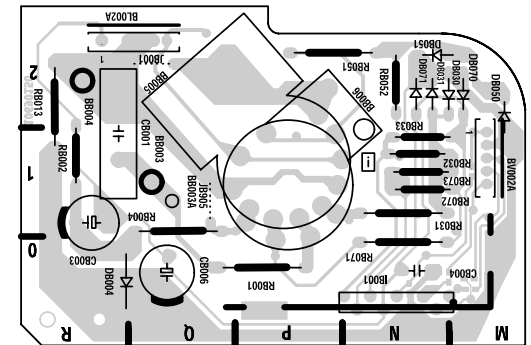
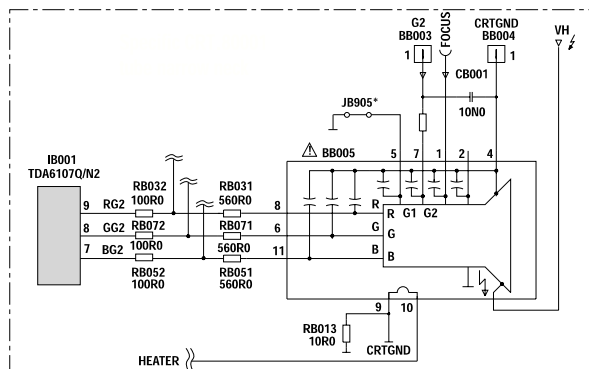
TUNER CTT5000

(FREQUENCY SYNTHESIS - SYNTHESE DE FREQUENCE - FREQUENZSYNTHESE - SINTESI DI FREQUENZA - SINTESIS DE FRECUENCIA)



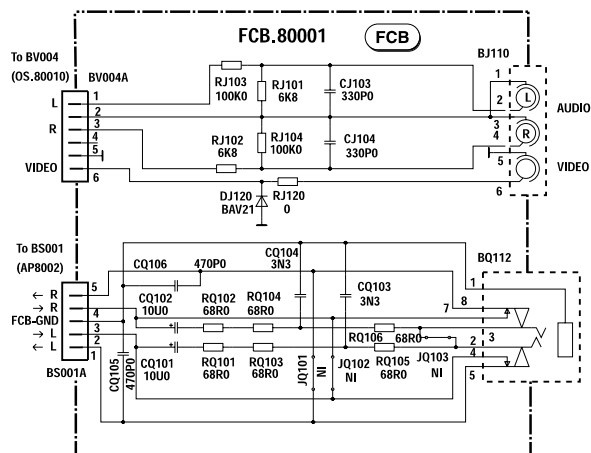


⚠ Safety Part
 When repairing, use original part only
 Pièce de sécurité
 N'utilisez que les pièces d'origine
 Sicherheitsbauteil
 Bei Ersatz nur Originalteil verwenden



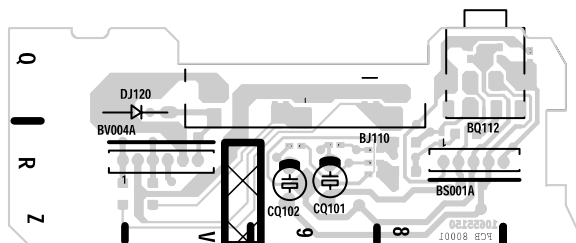
**FRONT CONNECTOR BOARD -
PRISES EN FACADE ET INTERCONNEXION DU CLAVIER -
FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE -
PLÁTINA MANDOS FRONTAL**

FCB.80001.00

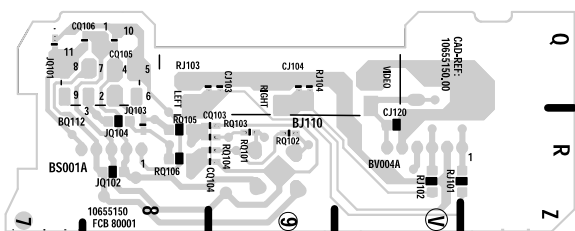


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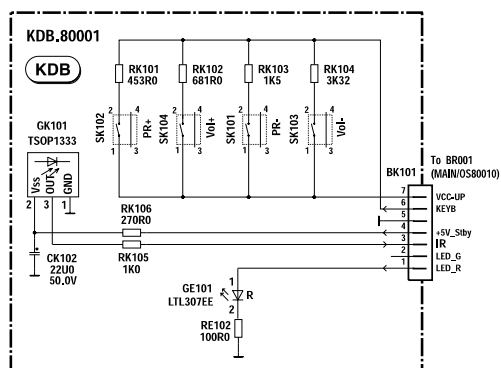
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



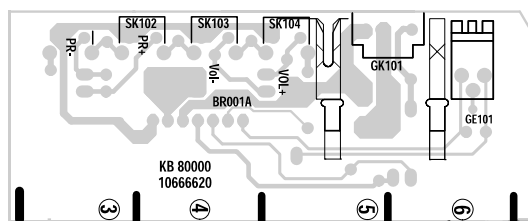
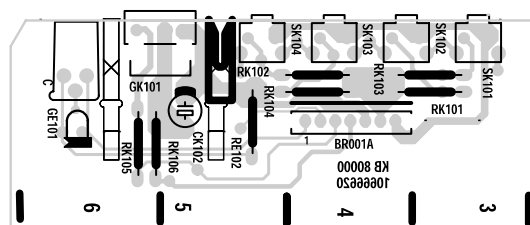
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



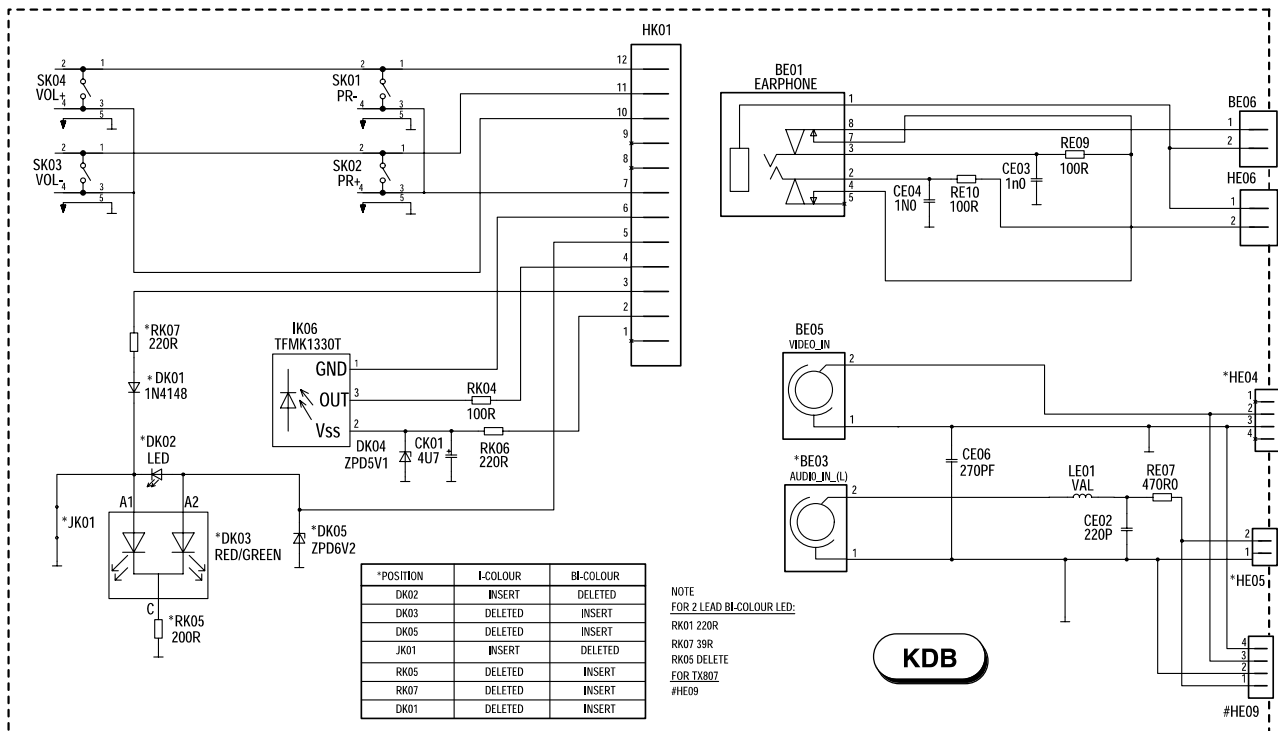
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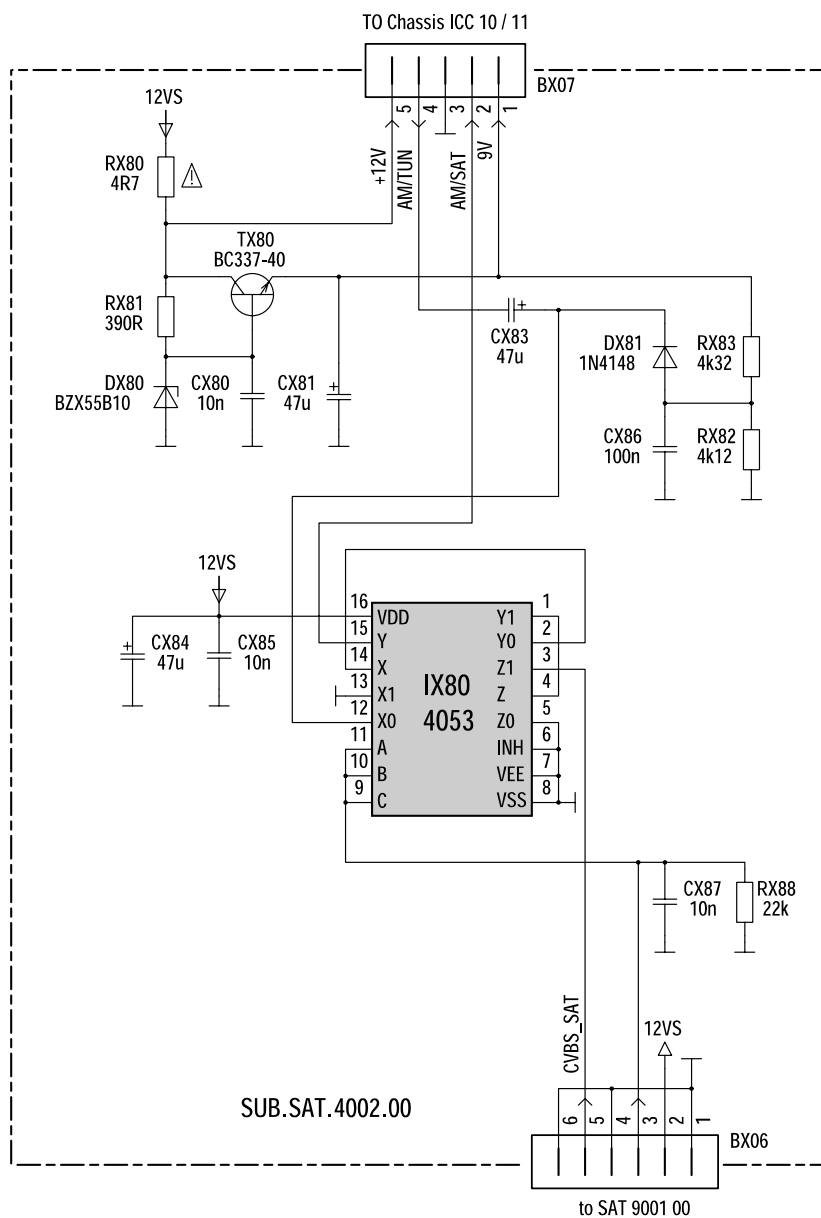
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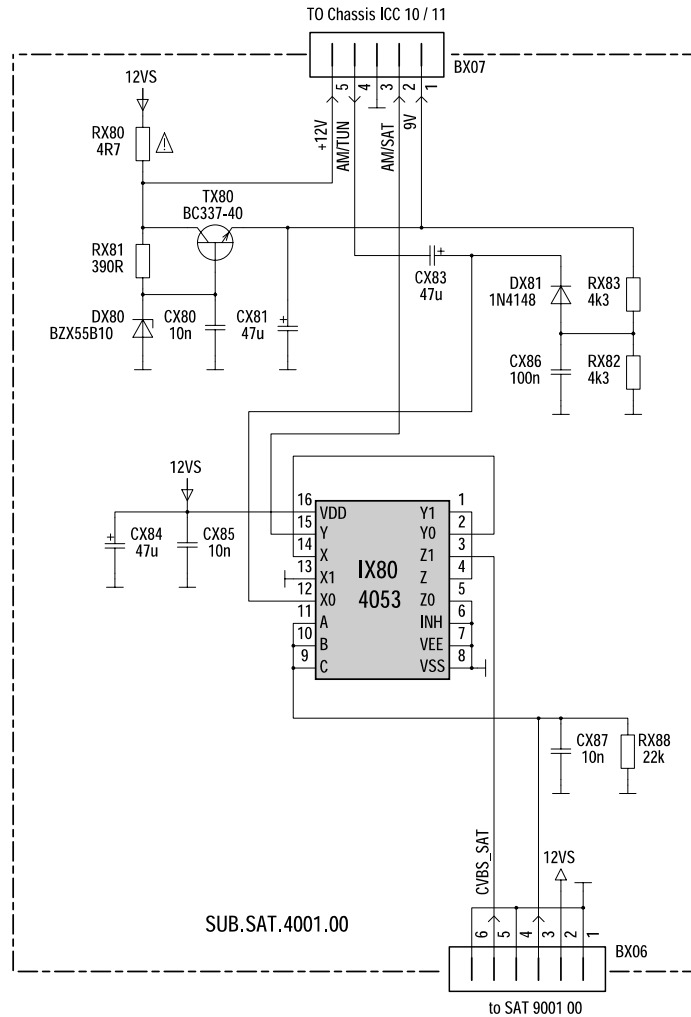
KEYBOARD MODULE - PLATINE CLAVIER - TASTATURPLATTE - PISATRA COMANDI - PLATINA TECLADO



**SUB SATELLITE MODULE - SOUS MODULE SATELLITE - SUBMODUL SATELLIT
MODULO SATELLITE - MÓDULO SATELLITE**

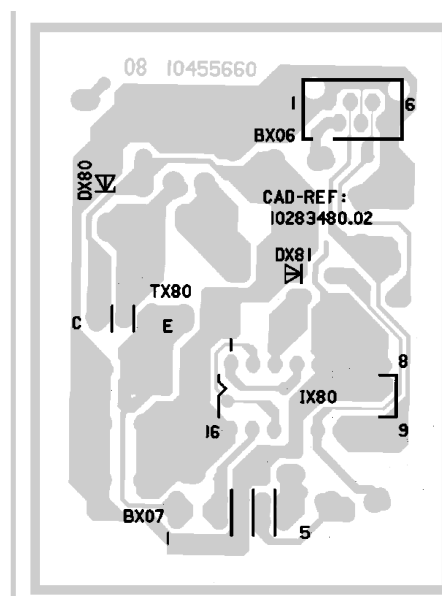
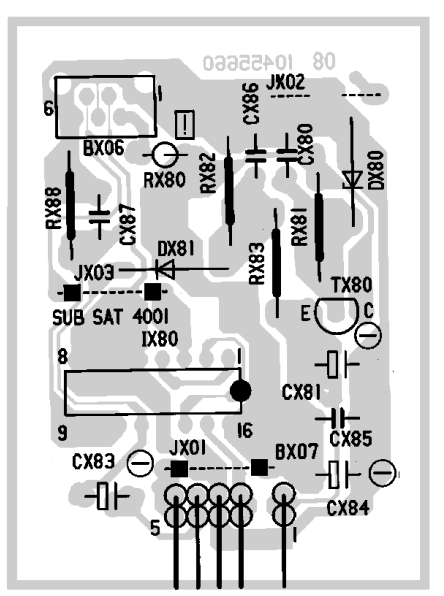


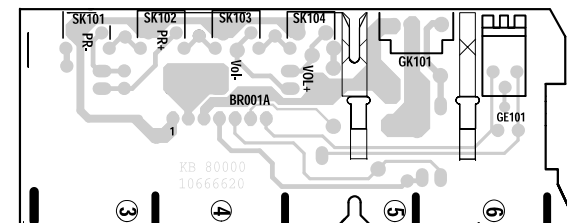
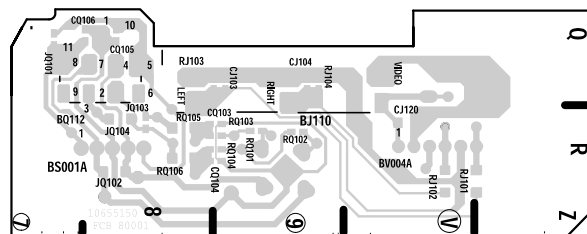
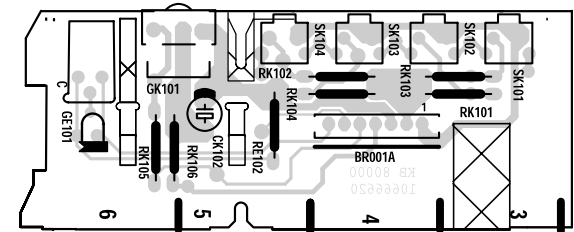
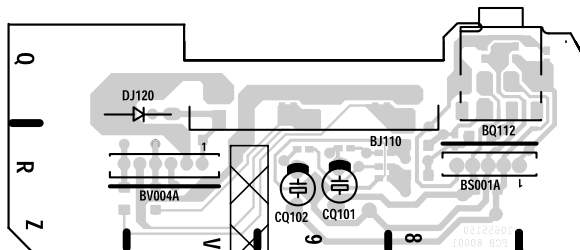
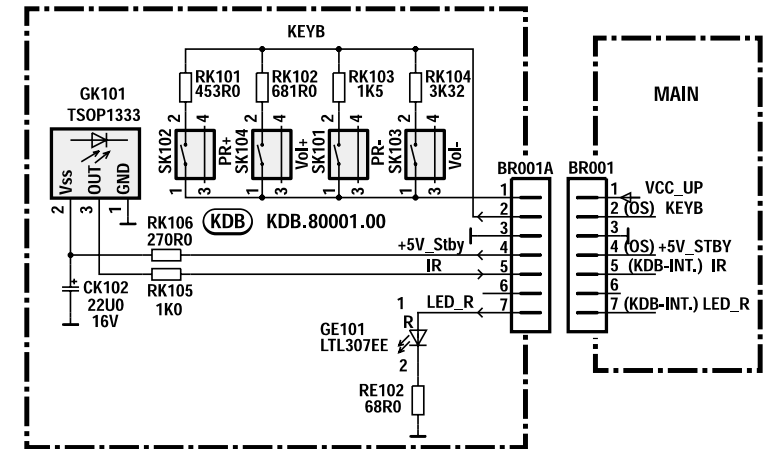
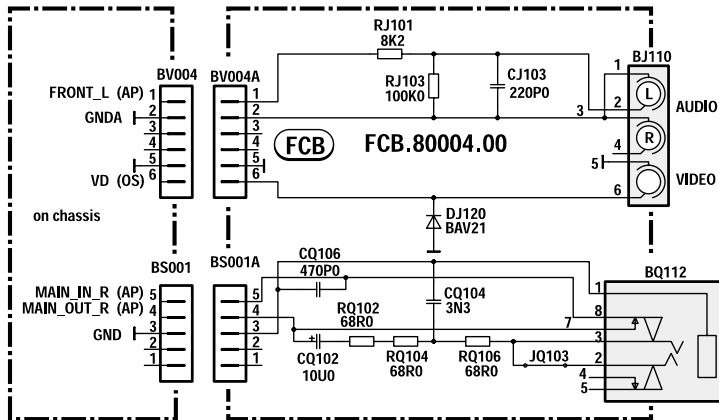
**SUB SATELLITE MODULE - SOUS MODULE SATELLITE - SUBMODUL SATELLIT
MODULO SATELLITE - MÓDULO SATÉLITE**

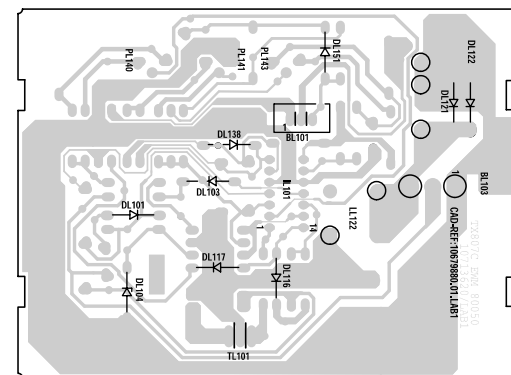
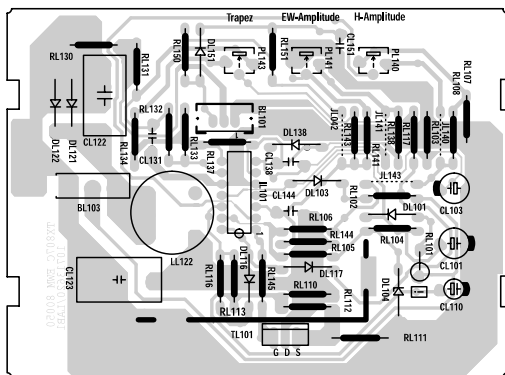
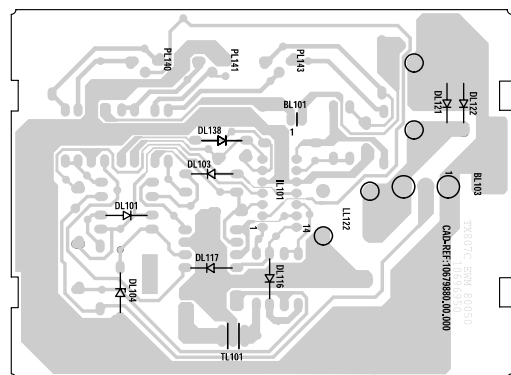
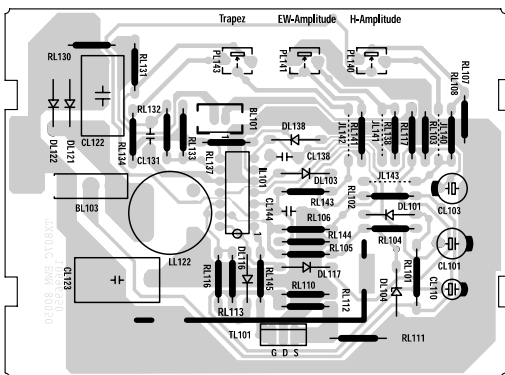


COMPONENT SIDE - COTE ELEMENTS
BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES

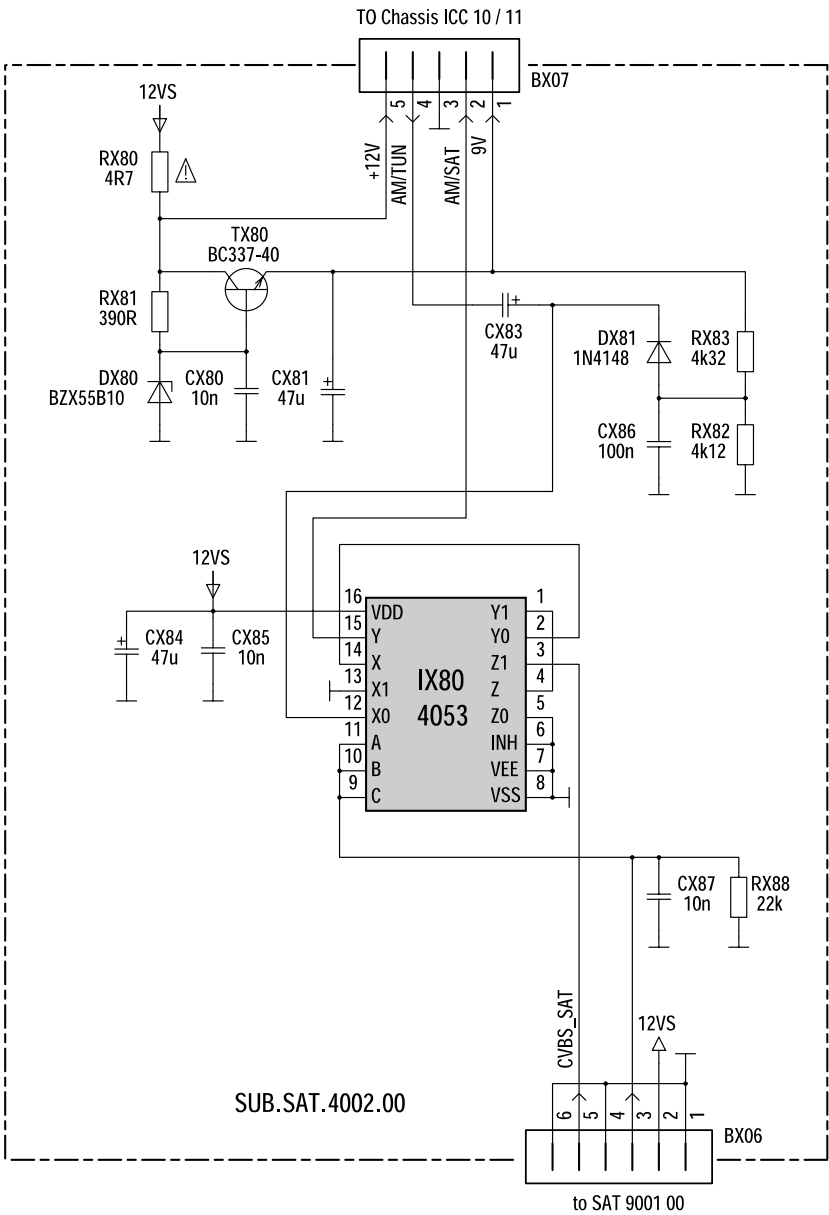
SOLDER SIDE - COTE CUIVRE
LÖTSEITE
LATO SALDATURE - LADO DEL COBRE



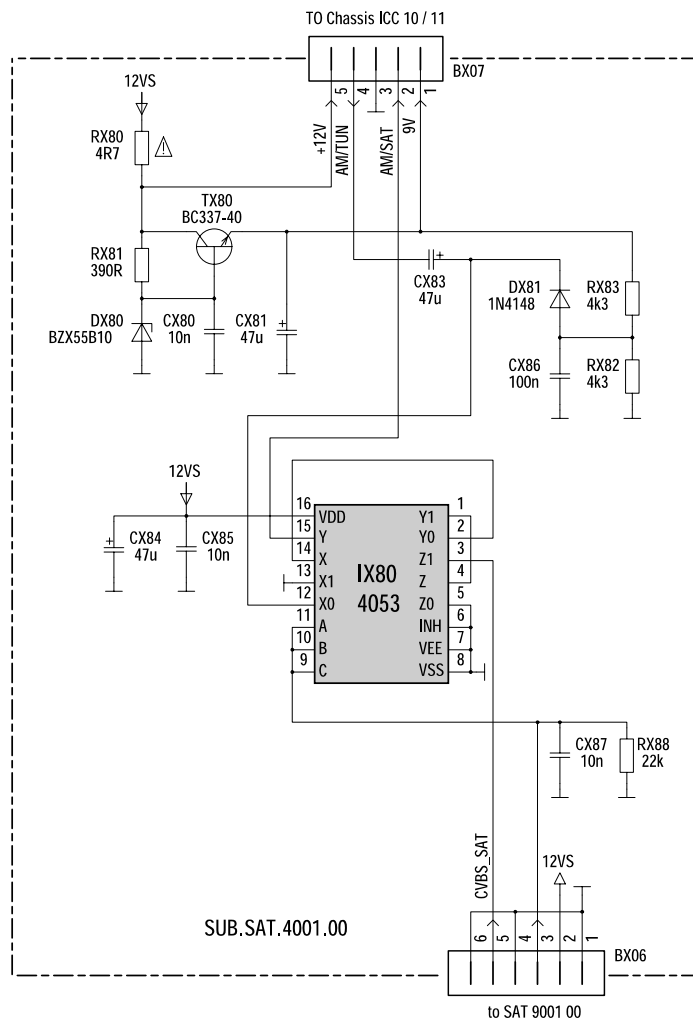




SUB SATELLITE MODULE - SOUS MODULE SATELLITE - SUBMODUL SATELLIT
MODULO SATELLITE - MÓDULO SATELLITE

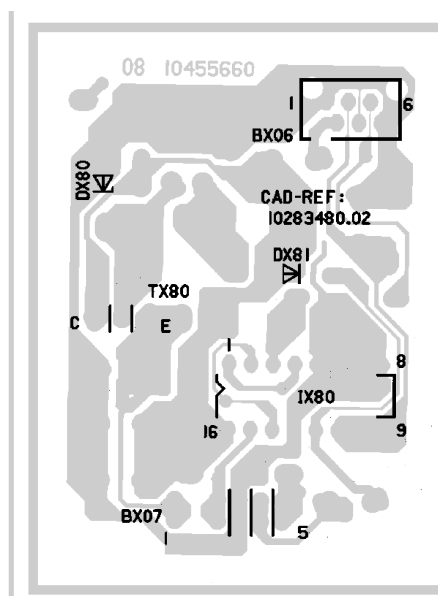
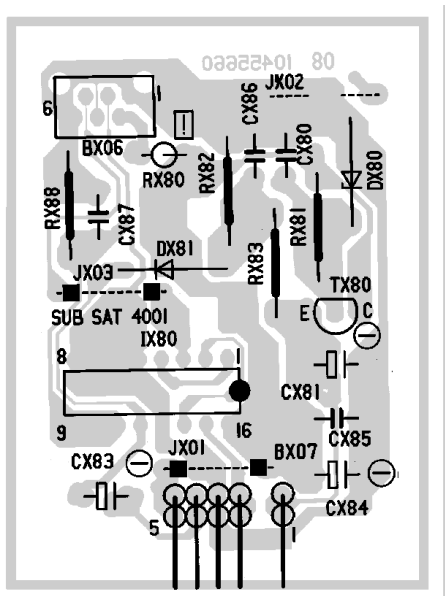


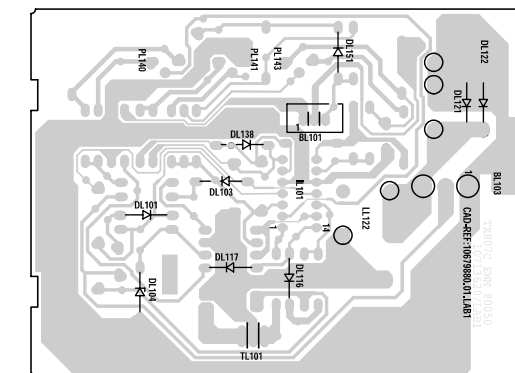
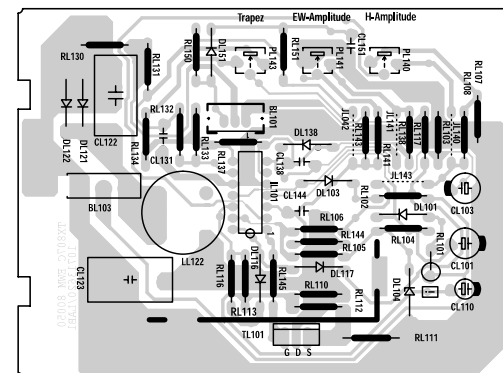
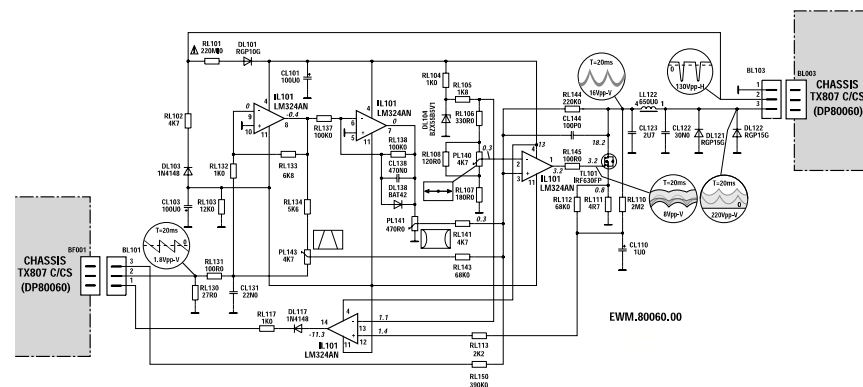
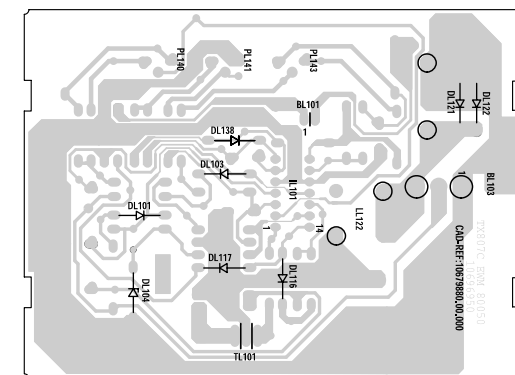
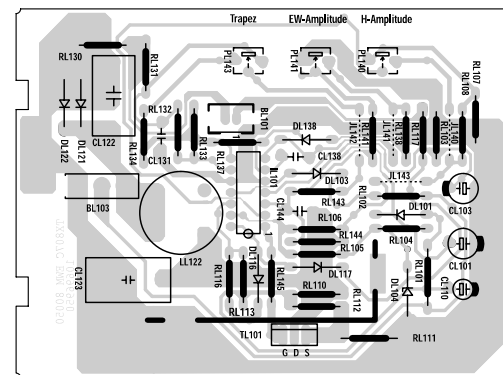
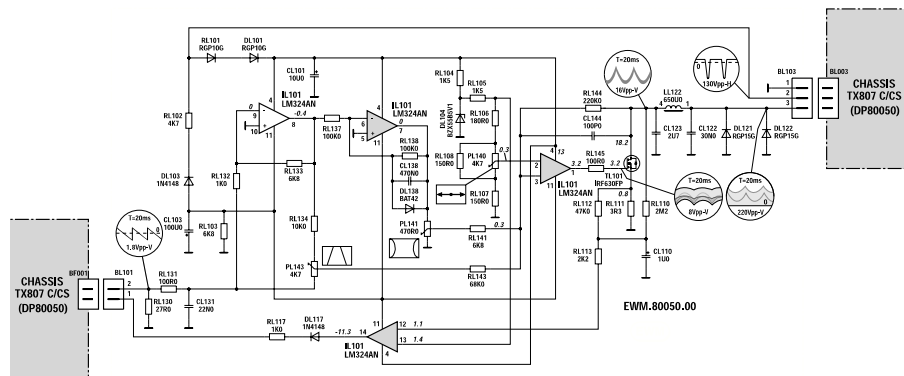
SUB SATELLITE MODULE - SOUS MODULE SATELLITE - SUBMODUL SATELLIT MODULO SATELLITE - MÓDULO SATELITE



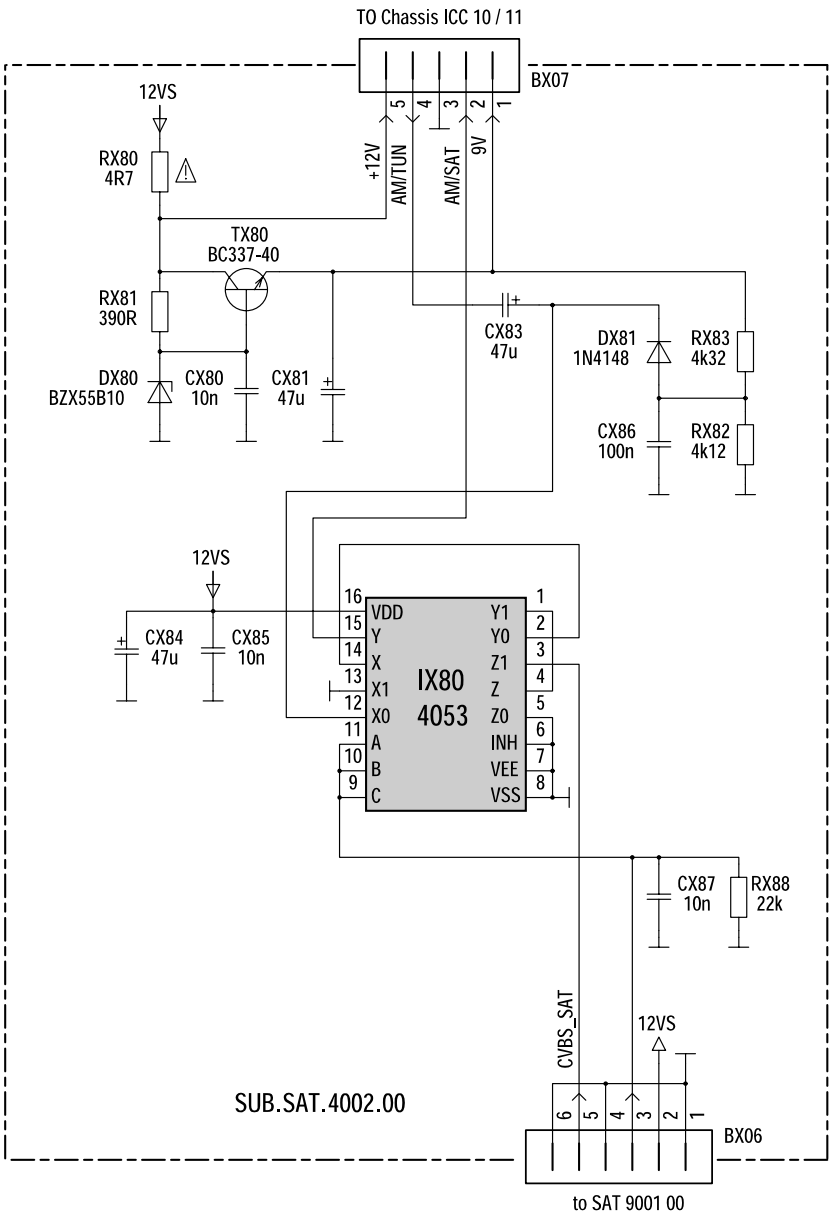
COMPONENT SIDE - COTE ELEMENTS
BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES

SOLDER SIDE - COTE CUIVRE
LÖTSEITE
LATO SALDATURE - LADO DEL COBRE

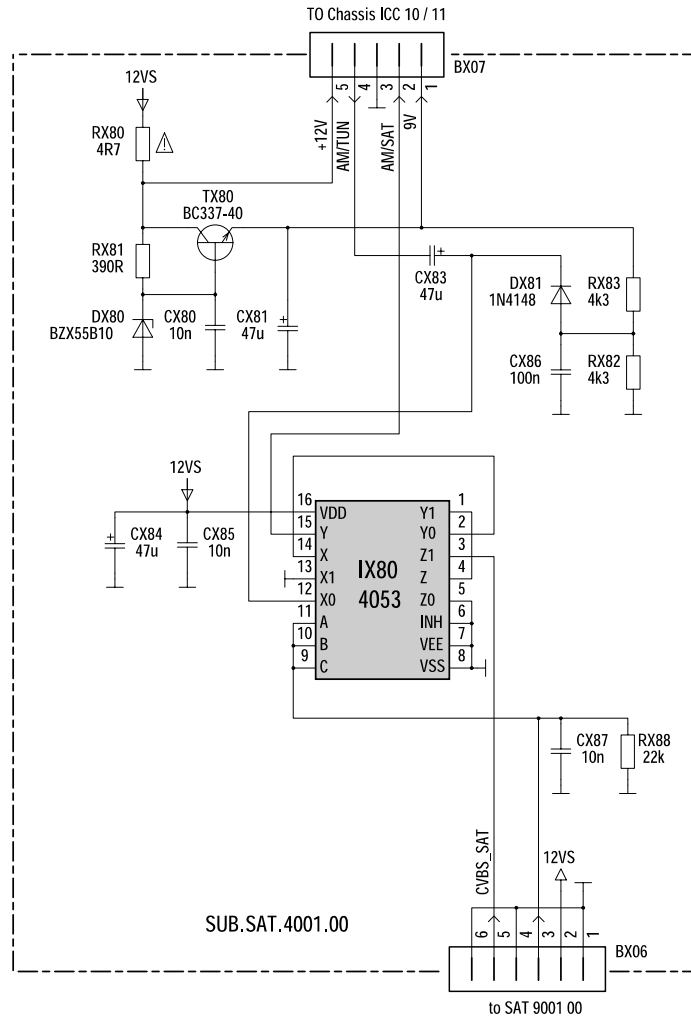




SUB SATELLITE MODULE - SOUS MODULE SATELLITE - SUBMODUL SATELLIT
MODULO SATELLITE - MÓDULO SATELLITE

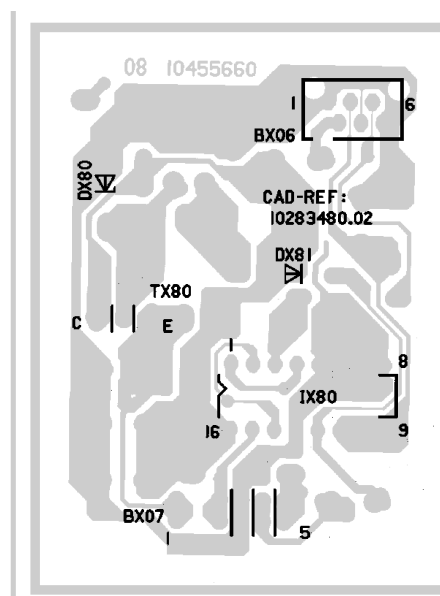
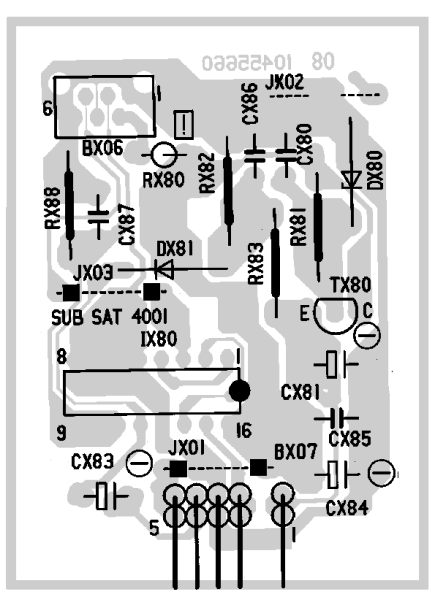


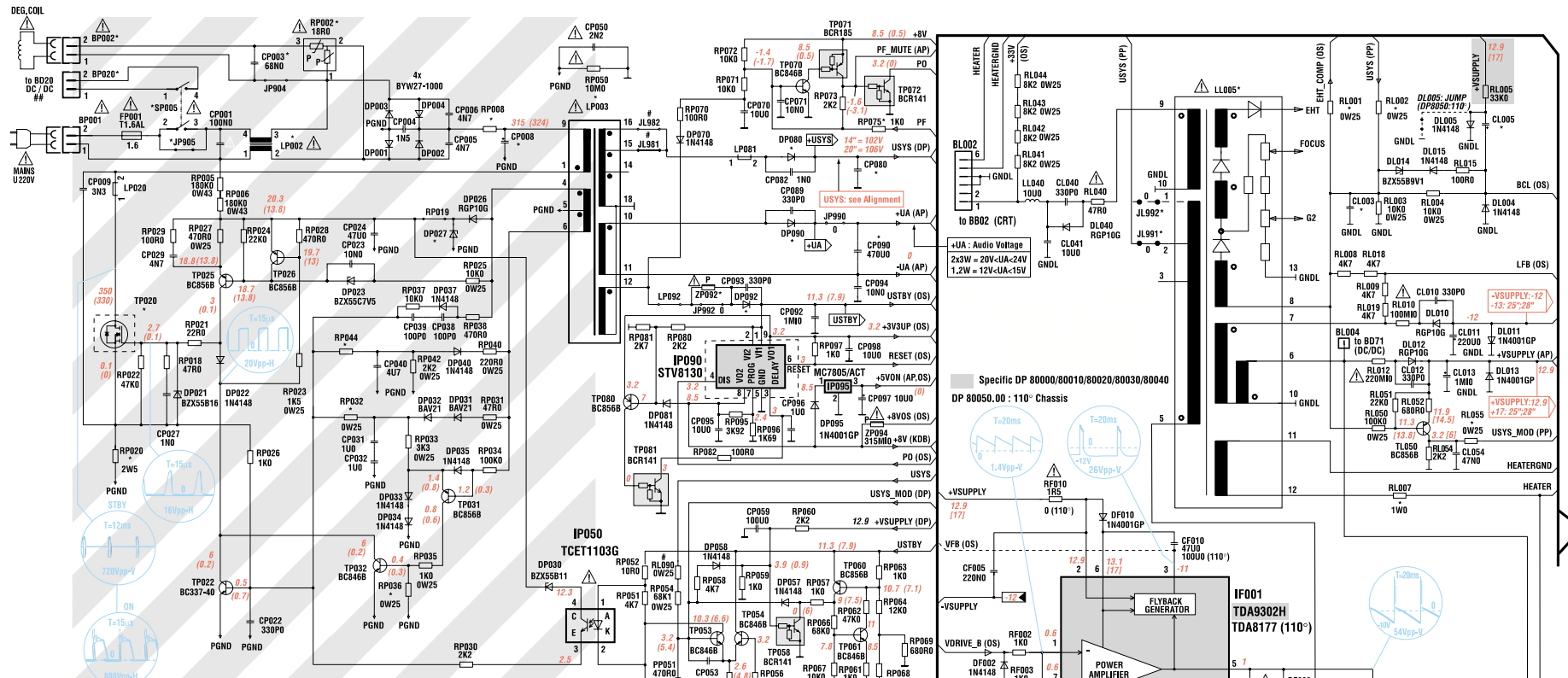
SUB SATELLITE MODULE - SOUS MODULE SATELLITE - SUBMODUL SATELLIT MODULO SATELLITE - MÓDULO SATELITE



COMPONENT SIDE - COTE ELEMENTS
BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES

SOLDER SIDE - COTE CUIVRE
LÖTSEITE
LATO SALDATURE - LADO DEL COBRE



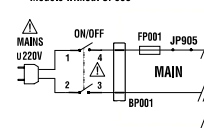


	PP 8000D PP 8002	PP 8001	PP 8003	PP 8005	PP 8007
BP002	X	X	X	X	X
BP20/99	-	-	-	-	-
CP003	X	X	X	X	X
CP008	6800	10000	10000	15000	6800
CP080	10000	10000	10000	22000	10000
CP090	16.0V	25.0V	25.0V	25.0V	16.0V
DP027	BZX55B27	BZX55B27	BZX55B27	BZX55B30	BZX55B27
DP030	MUR160	MUR160	MUR160	MUR160	MUR160
DP090	RG10G	MUR120	MUR120	RG10G	RG10G
DP092	MUR120	MUR120	MUR120	EGP100	EGP100
JP005	X	-	X	X	X
JP092	X	-	X	X	X
LP002	60M0	60M0	60M0	25M0	12M0
LP003	106S8360	106S6090	106S6090	106S3580	106S5630
RP002	X	X	X	X	X
RP008	SR12.5W	SR12.5W	SR12.5W	4R7/3W	SR12.5W
RP020	1R0	1R0	1R0	680M0	1R0
RP032	33K0	33K0	33K0	27K0	33K0
RP036	2K2	2K2	2K2	1K8	2K2
RP044	12K0	10K0	10K0	7K5	12K0
RP075	X	-	-	X	X
SP005	X	-	-	X	X
TP020	STP3NB90FP	STP3NB90FP	STP3NB90FP	STP3NB90FP	STP3NB90FP
TP092	-	MP315	MP315	MP315	-

X : Inserted - : Not inserted

	CL003	CL005	CL021	CL022	CL024	CL033	CL021	LL005	RF007	RF010	RL001	RL002	RL007	RL034	RL055	RL926	RL991	RL992
DP 30000 90° 4/3 10" Mini Neck	10N	4U7	6N6	330P	390N0	22N0	-	106S8460	1R82	1R5	82K0	120K0	2R2 4700	68K0	X	-	X	
DP 80010 90° 4/3 14" Mini Neck	10N	4U7	6N6	330P	440N0	22N0	-	106S8340	1R82	1R5	82K0	100K0	2R2 3900	68K0	X	-	X	
DP 80020 90° 4/3 17" Mini Neck	10N	4U7	7N6	-	330N0	22N0	-	106S8470	1R5	1R5	82K0	91K0	2R2 3300	68K0	X	X	-	
DP 80030 90° 4/3 20" Narrow Neck	10N	4U7	7N6	-	440N0	22N0	-	106S8470	1R5	1R5	82K0	82K0	1R0 1W0	68K0	X	-	-	
DP 80040 90° 4/3 21" Narrow Neck	10N	4U7	8N3	-	440N0	22N0	-	106S4690	1R21	1R5	91K0	91K0	1R0 1W0	68K0	-	-	X	
DP 80050 110° 4/3 25" - 21" Narrow Neck	22N	2U2	14N6	-	440N0	100N0	X	106S4690	1R21	0	220K0	91K0	1R0 1W0	220K0	-	-	X	

Models without SP005



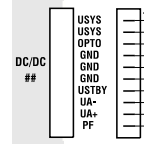
(0.7) : Standby

Use isolating mains transformer.
Utiliser un transformateur isolateur du secteur.
Einen Trenntrafo verwenden.
Utilizzare un trasformatore isolatore di rete.



Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

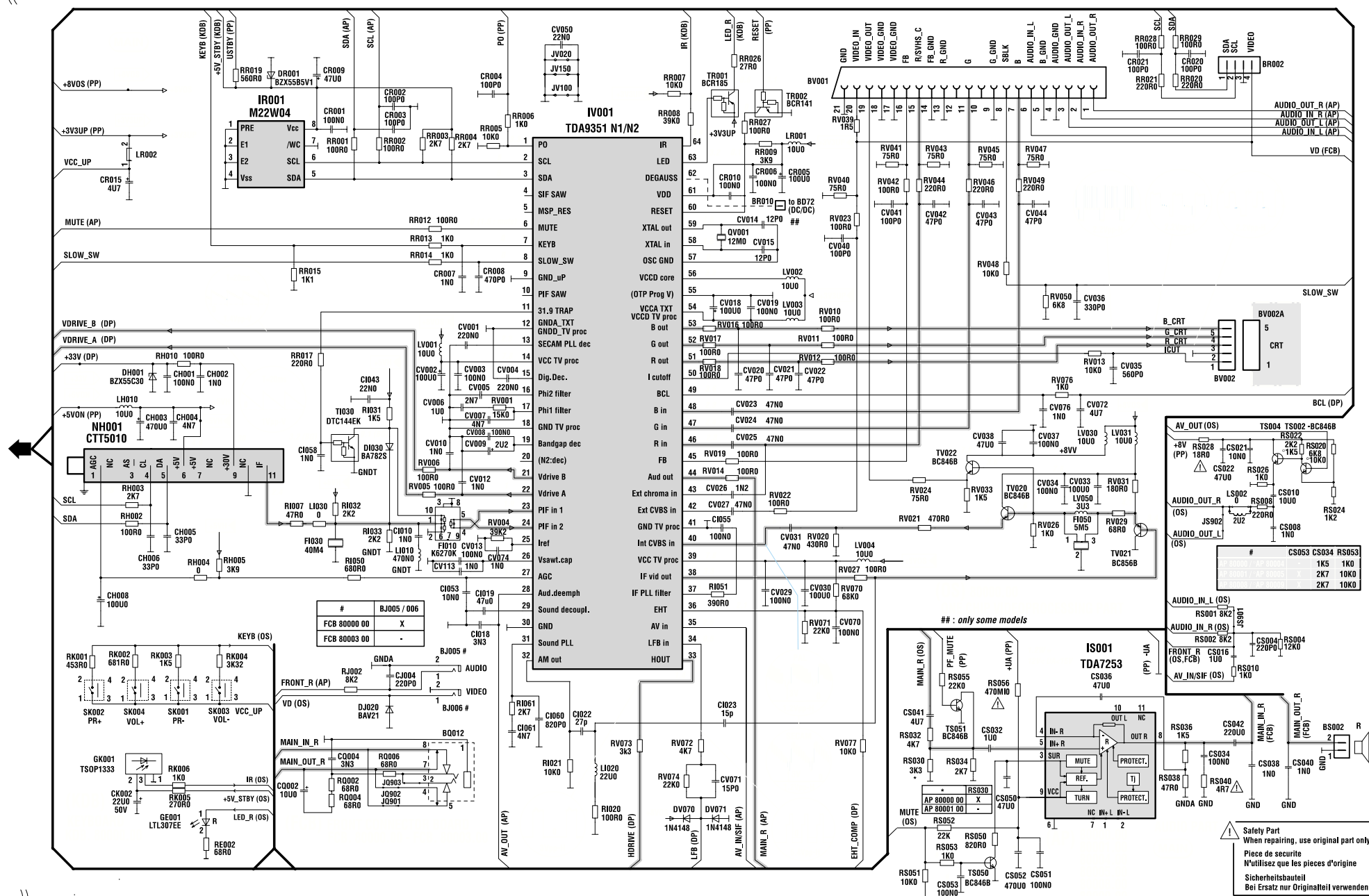
Note :
Power Supply primary circuit measurements.
- Use only (PGND) connection point.
Attention :
Mesure dans la partie primaire de l'alimentation
- Utiliser la masse du bloc alimentation (PGND).
Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).
Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (PGND).
Cuidado :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (PGND).

= value see DP 8... partlists
: only some models
BD90
BD999*

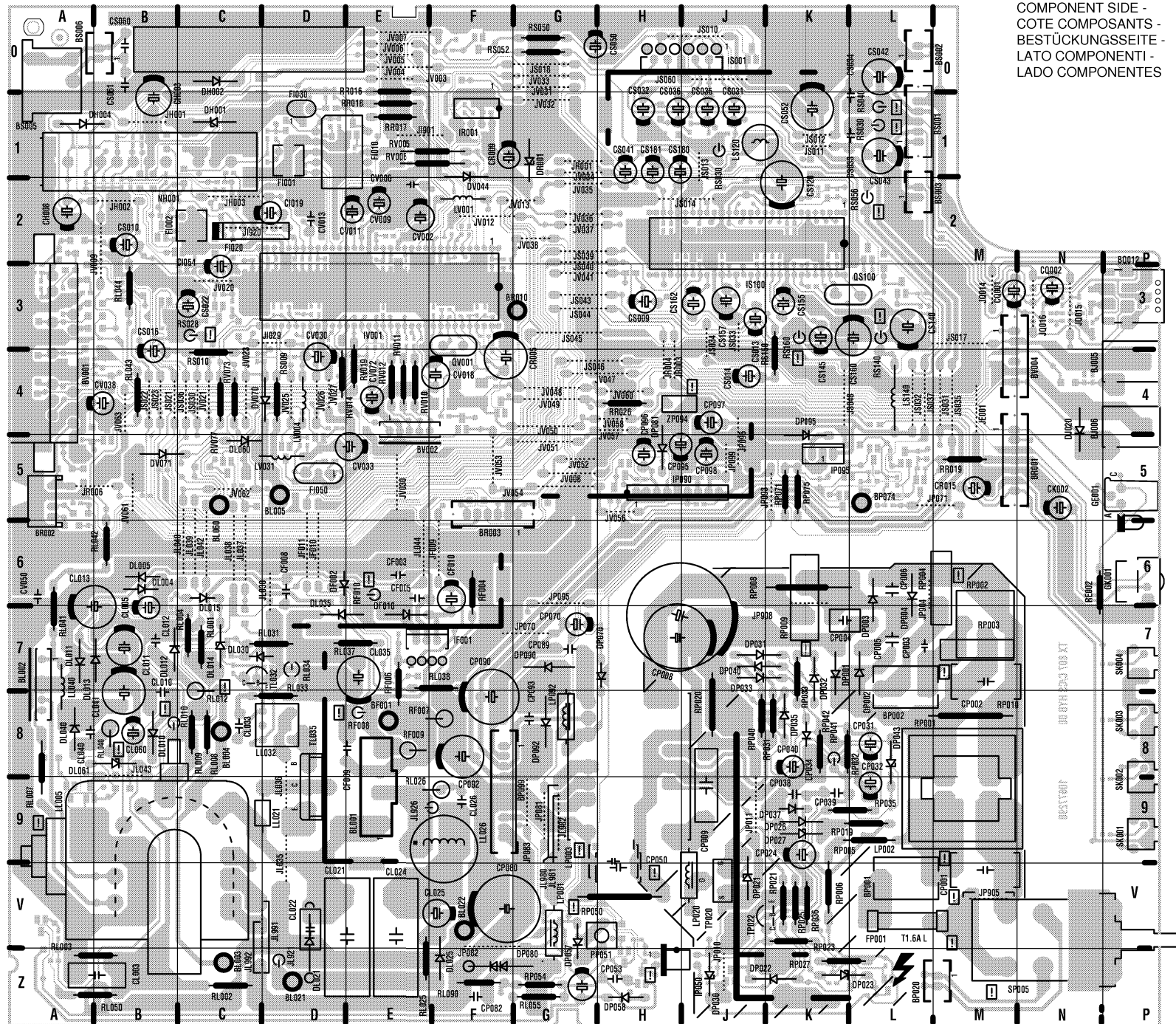


(0.7) : Standby
(17) : Specific 110° (25°-28°)

Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.
Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.
Wenn Sicherheitssteile (mit dem Symbol ) gekennzeichnet durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

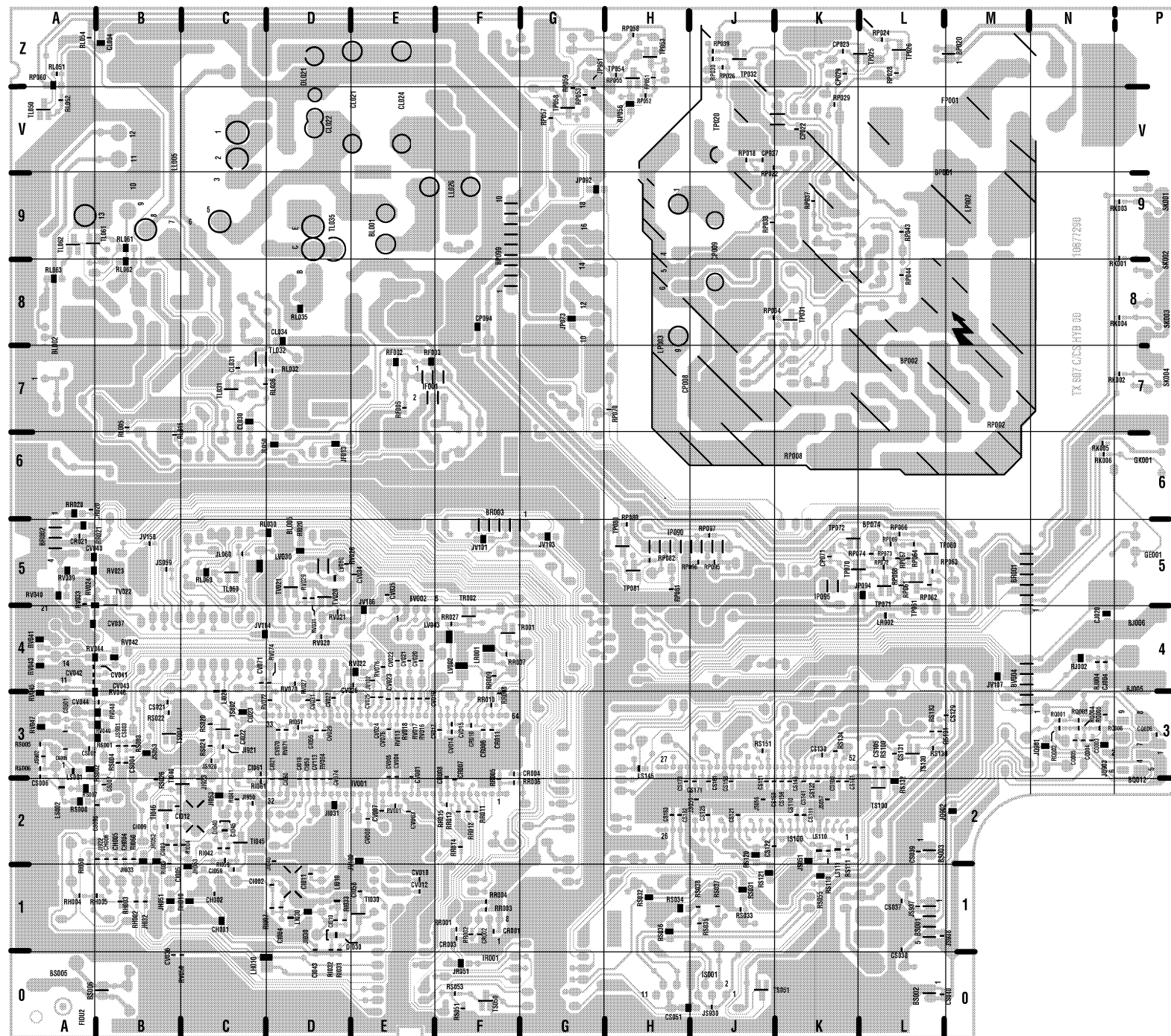


COMPONENT SIDE -
COTE COMPOSANTS -
BESTÜCKUNGSSEITE -
LATO COMPONENTI -
LADO COMPONENTES



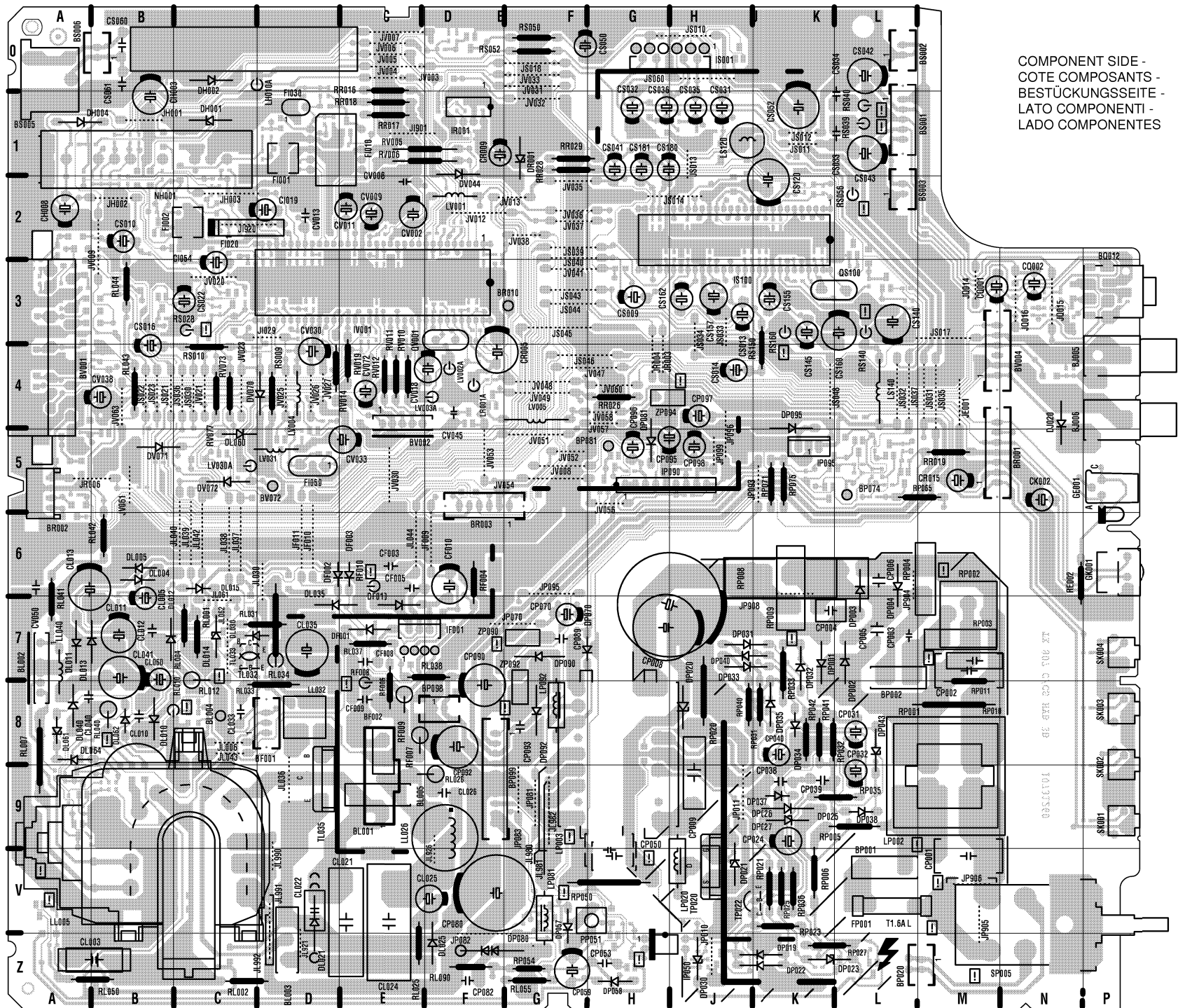
First issue 03 / 00

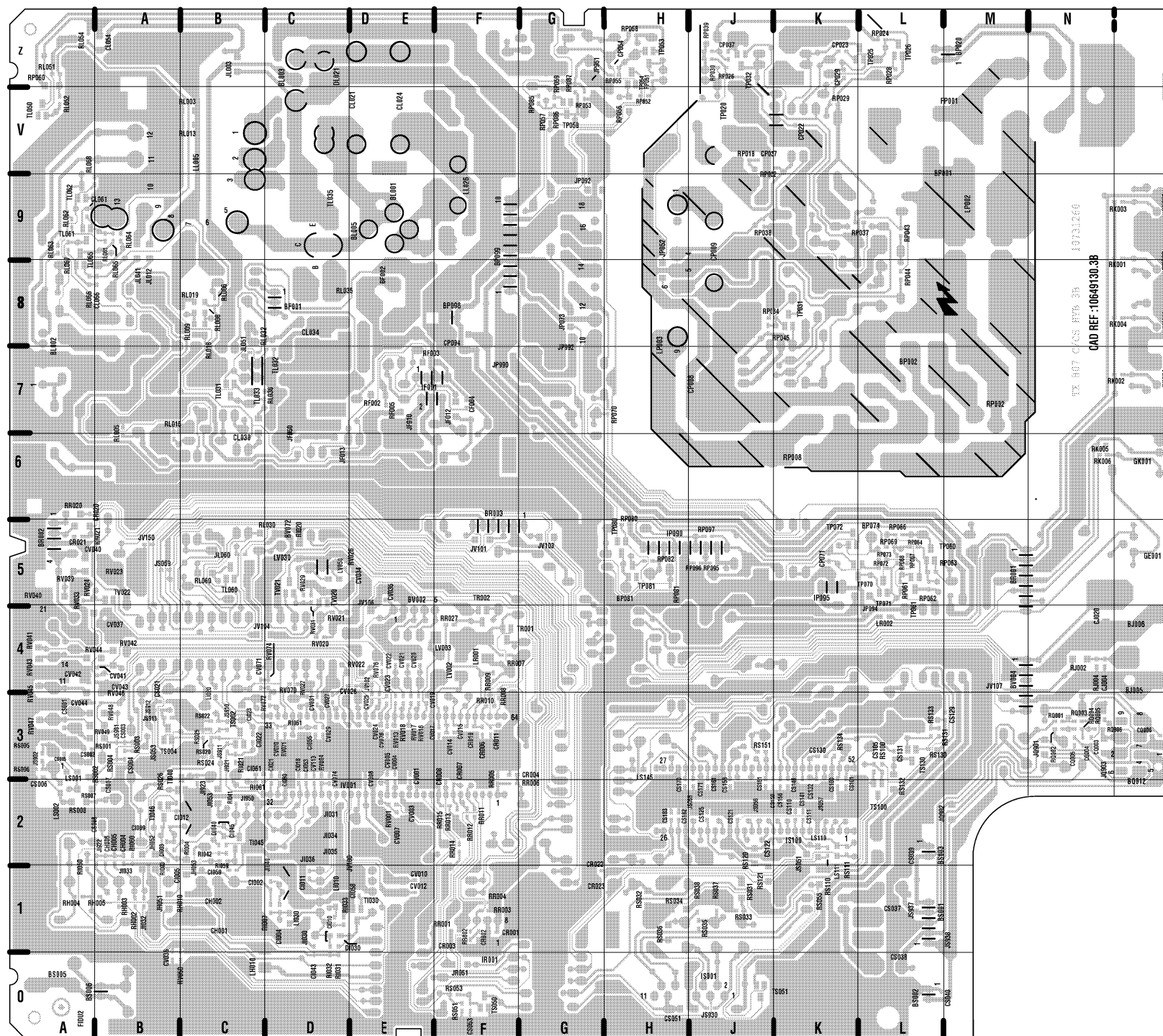
MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL



SOLDER SIDE -
CÔTE SOUDURES -
LÔTSEITE -
LATO SOLDATURE -
LADO SOLDADURAS

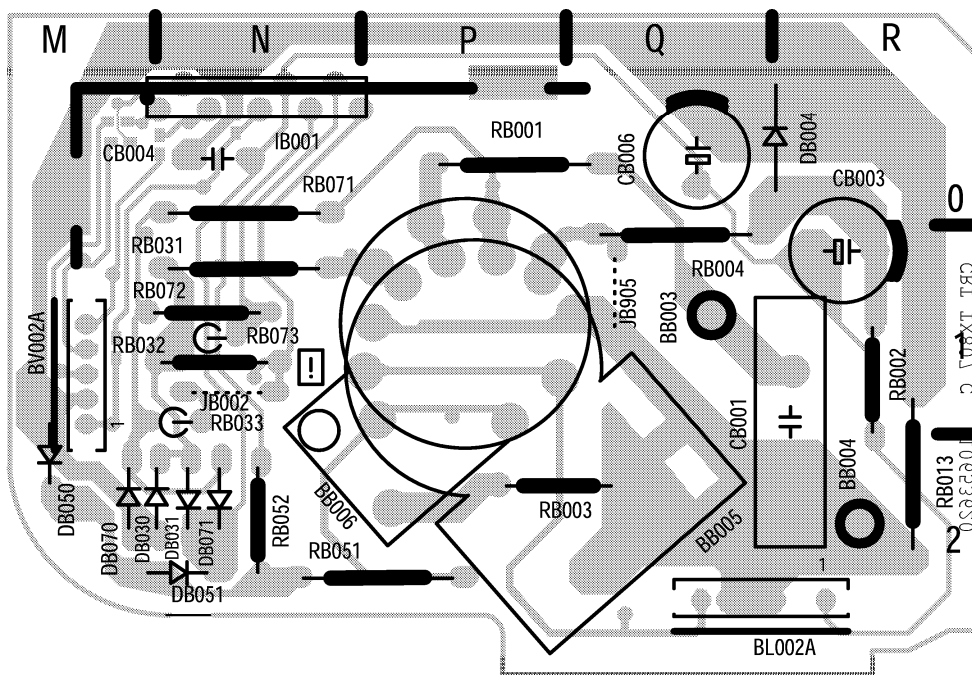
MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL



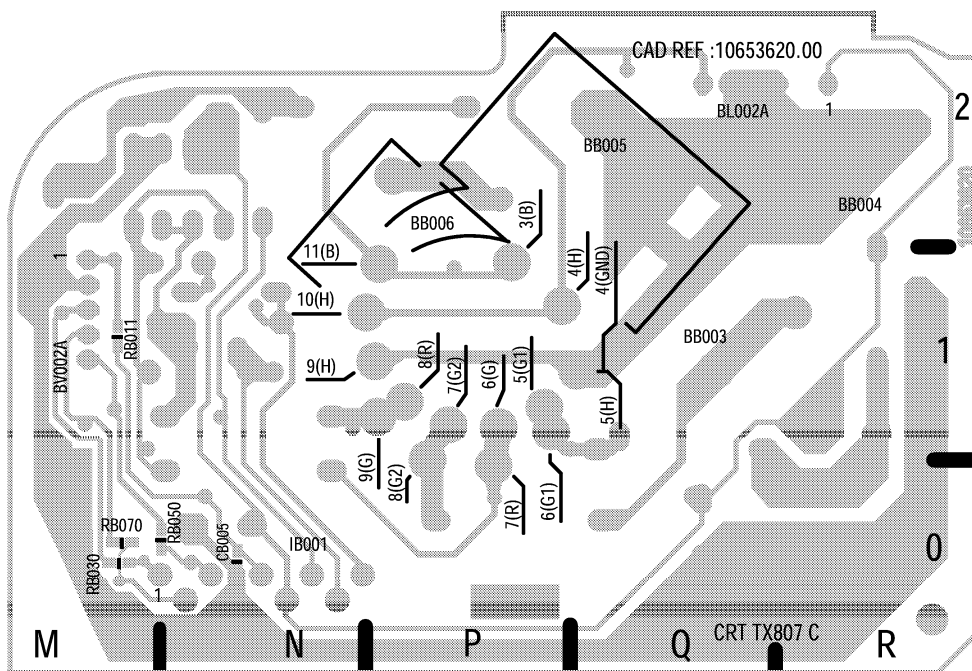


**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO -
VIDEOVERSTÄRKERPLATTE - PLATINA AMPLIFICADOR VIDEO -
PIASTRA AMPLIFICATORE VIDEO
CRT 80000.00 - CRT 80001.00**

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES

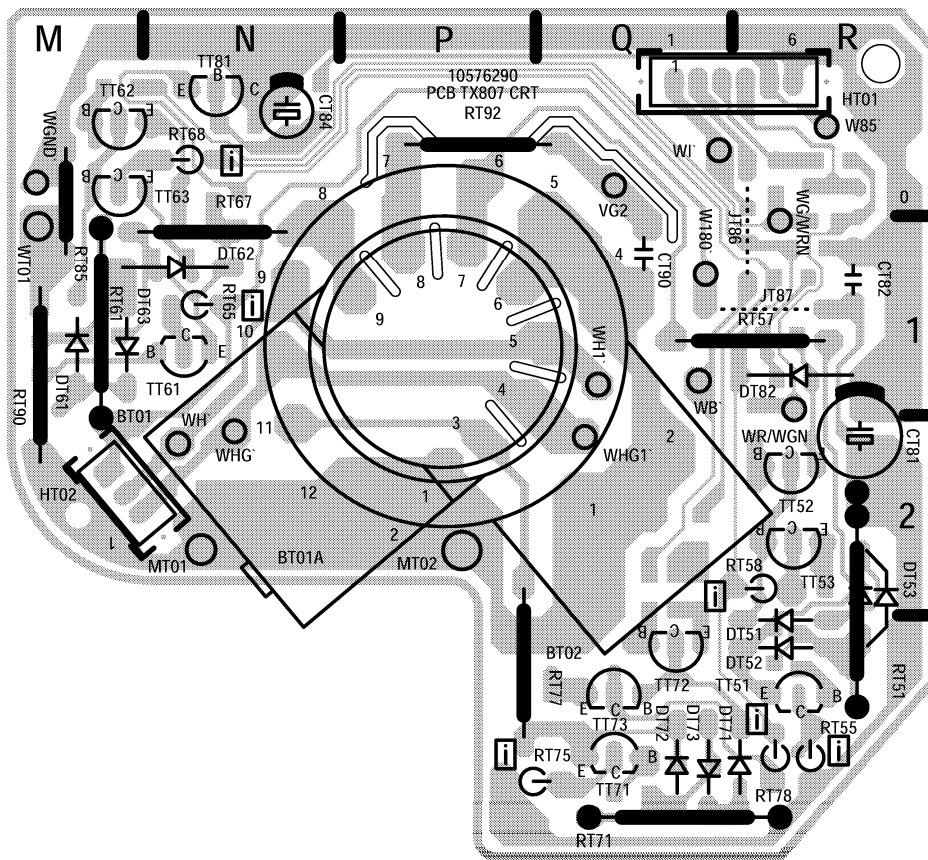


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

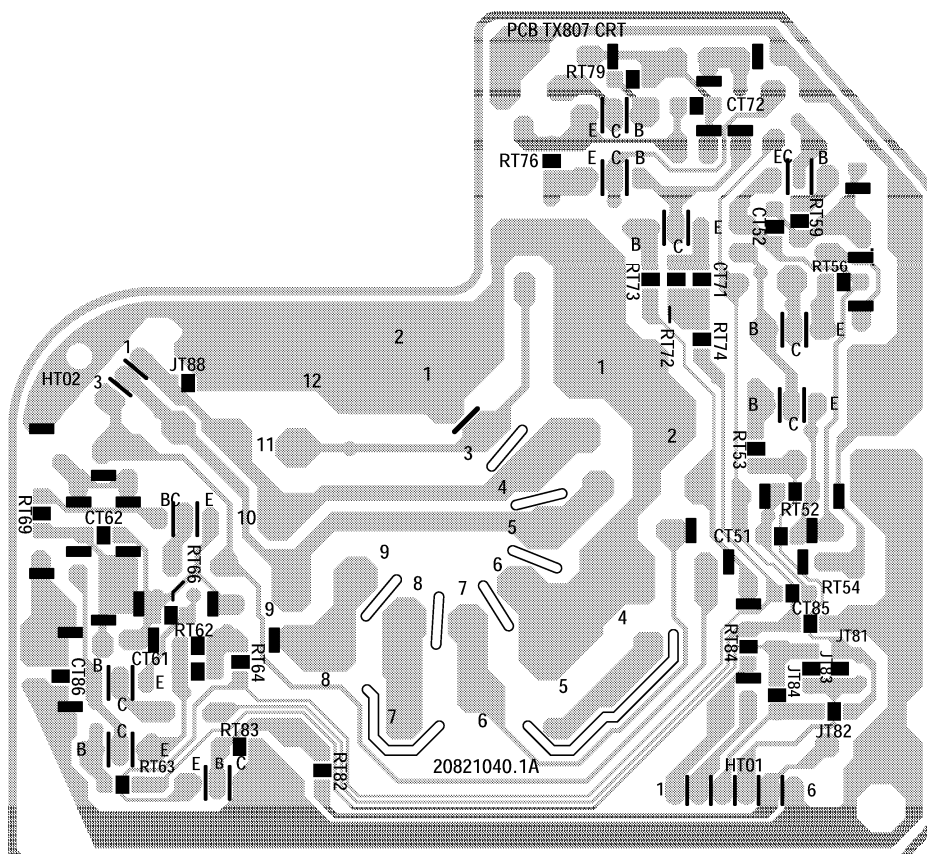


**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO -
VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO -
PLATINA AMPLIFICADOR VIDEO**

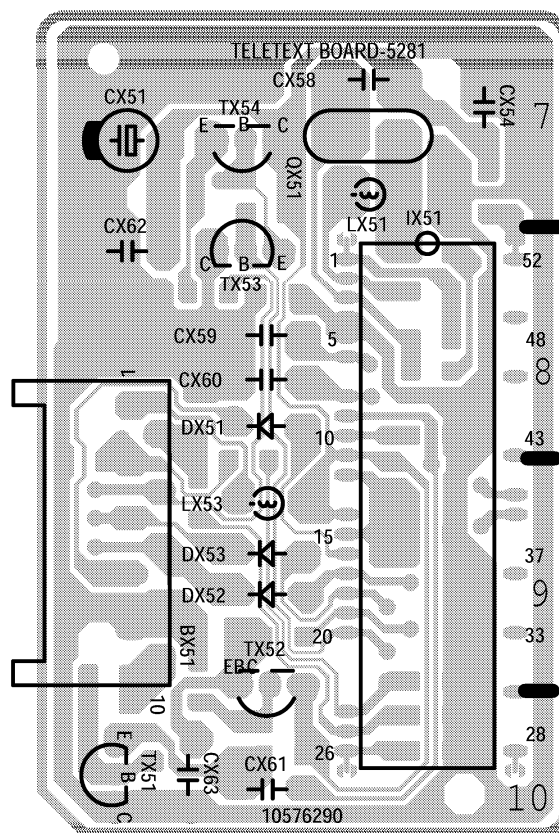
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



COMPONENT SIDE - CÖTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

